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Amateur Radio FM and Repeaters in the SouthEast

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Repeater Journal

The Official Voice of SERA, Inc.

August 2003
published quarterly 3.00

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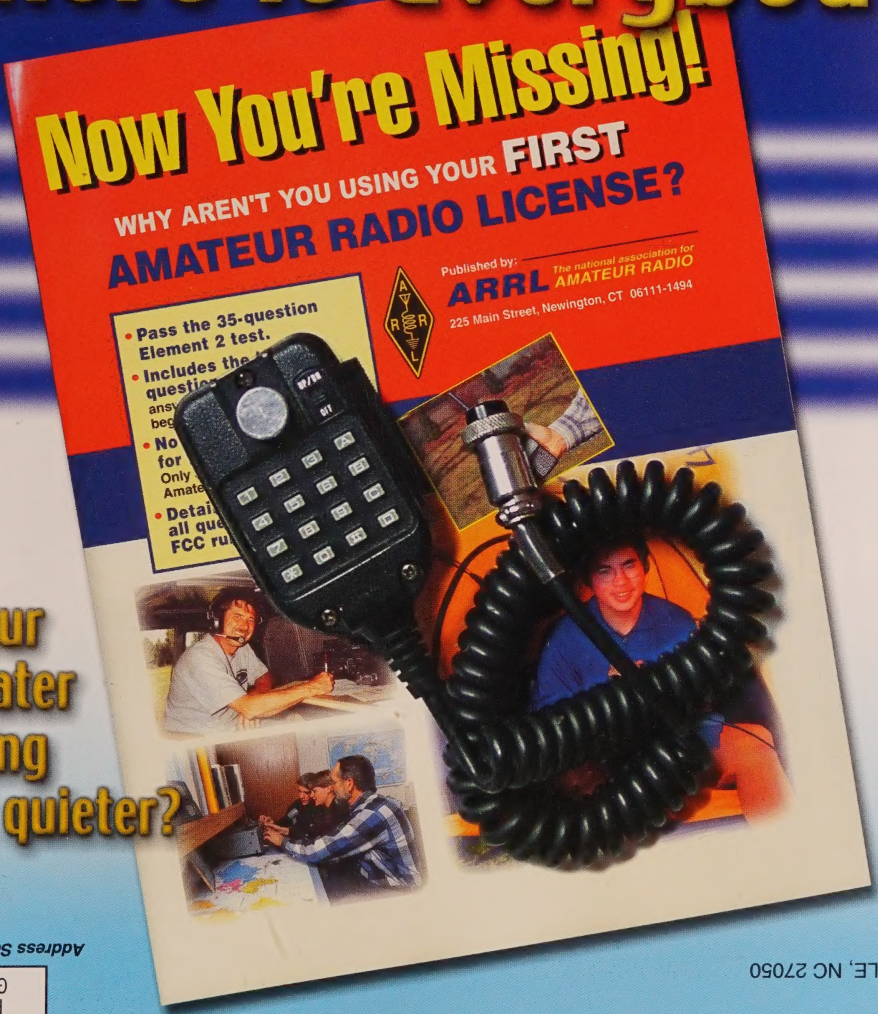

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SERA MEMBERSHIP

Full Repeater Membership

(A Membership for Repeater Owners & Sponsors)

Any repeater owner or club may join SERA as a Full Member if they have a properly coordinated and operating repeater on the air. A Full Membership application, coordination information (if not on file), and the correct membership fee should be submitted.

Two individuals representing the full member repeater, named and listed on the application by the owner, receive the *Repeater Journal* each quarter.

The two Full Member Representatives have voting privileges in SERA elections and may be eligible to hold elective offices within the organization. The full member repeater is also recognized as a SERA supporter in the repeater index with a ☺ symbol. A Full Member application is available in this issue of the Repeater Journal, and on the SERA web site: **www.sera.org**.

Full Member dues are $20/year, pro-rated by quarter. All full memberships expire on December 31st of each year.

Associate Membership

(A Membership for Repeater Users)

Amateurs Radio operators, especially repeater users, are invited to join SERA as Associate Members. Only $8.00 per year will enable you to support the organization and receive the *Repeater Journal*. Associate Members may hold appointive offices within SERA, but do not have voting privileges.

Associate Membership begins in the quarter you join, and dues are not pro-rated. Renewals are due in the same quarter in subsequent years.

REPEATER JOURNAL MAILING

The *Repeater Journal* is mailed Bulk Rate during the first week of the cover date. Delivery takes one to two weeks. Notify the **editor** if you have not received your copy by the 1st of the following month. **The Journal is *not* forwarded to new addresses. If you move, send your new address to the editor!**

Associate member dues increase (a little)

The SERA Board of Directors voted to increase Associate Member dues from $8 to $10 per year, effective January 1st, 2004. Board members had to think hard to recall the last dues increase - it was 1993, when dues went from $6 to $8, which means SERA has gone 11 years without an increase.

The Board was acting on information from *Repeater Journal* editor Gary Pearce KN4AQ, who said that advertising revenue was down a little, and expenses were up a little, trends that he expected to continue.

The cover price of an individual copy of the Journal will increase to $4 beginning with the November 2003 issue.

The Board decided not to increase full-member dues for the time being, but will revisit the question at next winter's meeting.

EDITOR COMPENSATION

Pearce provided another reason for increased *RJ* cost: he asked to be paid to do it. He said that editing the Journal took 80 to 100 hours per issue, time that sometimes conflicted with the needs of his clients (Pearce is a free-lance audio and video engineer). He asked for an amount that was "a lot less than the work would cost commercially, but enough to mean something."

The question stirred considerable discussion and debate. SERA has paid for some clerical help in keeping repeater records, but otherwise all other positions are volunteer, from the Officers and Directors to Frequency Coordinators and *Repeater Journal* authors. Many of these jobs also require considerable time and effort, with skills equal to paid positions at companies.

In the end, the Board decided to consider the *Repeater Journal* editor position as an individual case, and approved Pearce's request for compensation effective January 1st, 2004. The vote was not unanimous.

ONLINE SERA MEMBERSHIP

Becoming a SERA member, and renewing membership, will become easier for those who willing to do business over the Internet. After presentations by Pearce and GA Asst. Director Rick Wright W4LOC, SERA President Don Williams W4VT appointed Wright to chair a committee to look into setting up on-line membership. The committee made a report by e-mail in July, and the Board approved plans to proceed. Details are not available at press time, but within the next few months, the SERA web site should contain a secure page for membership transactions using a credit card.

That will be nice, but nothing beats in-person contact. SERA staff will still appear at many hamfests, and you'll still be able to join and renew membership there.

OFFICER NOMINATIONS

President Williams also appointed a nominating committee to recommend officers for the next two years. The positions of President, Vice President, Secretary and Treasurer will be up for election. The committee's recommendations will be published in the November *Repeater Journal*. Nominations will also be open "from the floor" from any full member, and a nomination form will be included in the November issue.

900 MHZ PLAN PROPOSED

VA Asst. Director Vester Scott N8EKA presented a plan for modifying the 900 MHz band plan. His proposal would simplify repeater coordination and use of existing surplus commercial equipment in the Amateur 900 MHz band (no equipment is currently manufactured specifically for Amateur Radio use).

The Board took no action on Scott's proposal, but details are presented in this issue of the Repeater Journal, and we invite member comments.

STATE REPORTS

Reports from each state Director indicate continued slow growth. Some coordinators have been a little busier than others. Most action is on the 440 MHz band, but a few two-meter repeaters are still being squeezed in here and there. North Carolina now has more repeaters coordinated on 440 than on 146, for the first time ever in a SERA state.

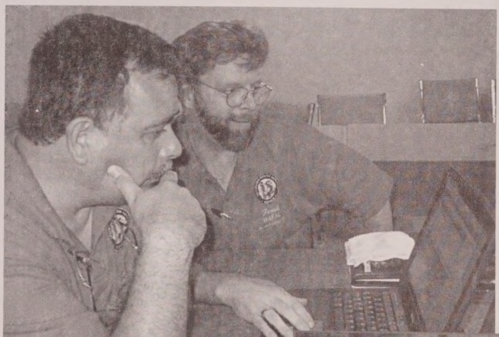
PERSONNEL

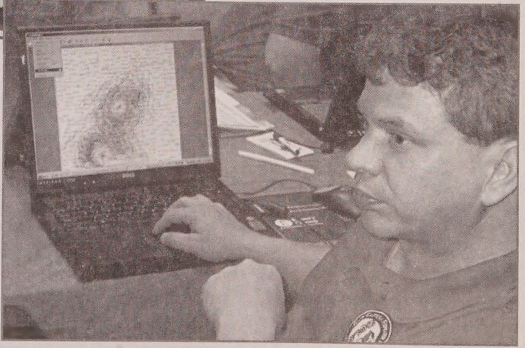
There were no personnel changes at the meeting. In an e-mail vote before the meeting, the Board approved MS Director Steve Grantham's appointment of Harold Bullard K5WHB as a new Assistant Director for Mississippi. There's more info in Charlie Diamond's *Mississippi News* column in this issue of the Journal. By the way, Steve is sporting a new callsign: N5DWU is now AA5SG. Congratulations, Steve!

COMSTUDY

Saturday morning training once again focused on SERA's new ComStudy program. NC Vice Director Frank Lynch W4FAL reviewed the details of this complex program that allows coordinators to more accurately predict repeater coverage and interference potential based on real-world parameters. Lynch said that he has been able to get some previously uncoordinated repeaters to qualify for coordination based on results of ComStudy predictions.

The SERA Winter Board Meeting is scheduled for January 10, 2004, in Pigeon Forge, TN. ■





ComStudy Study:
above - Alex N8FWL gets some one-on-one from Frank W4FAL (notice Frank's new beard!). Right - Jeff W4KMB watches Frank's presentation with a graphic demonstration on his notebook computer.

Frank reports a brisk "can you check my repeater coverage" business at hamfests. Enterprising RJ editor KN4AQ suggests "Sure. $5 a pop."

The 900 Band: There's still time to do it right!

Please note that this article is a proposal by the author. It is not SERA policy at the time of this publication. The SERA Board is considering the proposal.

Vester Scott N8EKA
Georgia Asst. Director

The 33 cm (a.k.a., "900") amateur band, covering 902-928 MHz, is approximately 20-year-old news, but lately there's been a resurgence of interest in its FM repeater segments due to the increasing availability of a wide range of usable and affordable surplus commercial FM radios.

The thing about 900 that appeals most to this writer is that it attracts only *real* hams. If you're on 900 you're probably technically oriented or inclined. Period. Appliance operators need not apply. 900 MHz may also be the highest usable frequency for good, solid FM mobile amateur communications without excessive "picket-fencing".

In this article I hope to accomplish four things related to this great band:

- Outline some of its benefits
- Briefly identify some of the equipment available for it
- Present some of its inherent challenges, and attendant solutions
- Get more hams working together to define its future

THE SERA 900 BANDPLAN

The SERA 900 bandplan, at **www.sera.org/900.html**, is an excellent piece of work that covers all the bases. Most of the active and aspiring 900 band hams around the country appear to agree on this. The bulk of any existing *disagreement* centers on two things:

- Choosing 12 MHz, 25 MHz, or both as standard national repeater splits
- Defining a common national calling frequency.

Among the thirteen existing 900 repeaters in SERA territory, 12 MHz splits are currently being used only in GA, NC, TN, and VA, while 25 MHz splits are being used only in GA, KY, and NC. There are no 900 repeaters in MS, SC, and WV.

12 MHz split: Most of today's existing 12 MHz split 900 MHz repeaters were the first on the scene when this band became available to amateurs. These were built laboriously from the ground up, typically using crystal controlled GE-Ericsson mobile radios that were far from plug-and-play. These radios were initially available to hams only in certain areas around the country, where they had been sold and used but later became surplus due to upgrades, FCC band changes, etc.

25 MHz split: Synthesized 900 radios suitable for 25 MHz splits essentially came along later. Hams were quick to take advantage of two vital characteristics of this new proliferation of radios:

- They would be available on the surplus market for years to come
- The inherently easier low loss isolation achievable in duplexers having a 25 MHz split versus a 12 MHz split.

Maybe, in a perfect world, we'd only have one split and one national calling frequency to deal with. However, just because it didn't work out that way doesn't mean we can't all agree upon a plan "B". I'll come back to this.

AVAILABLE EQUIPMENT

There are a number of ways to go when selecting FM repeater and simplex equipment for the 900 band, depending on your interests and pocketbook. The Yahoo AR902MHz group is a great place for repeater builders and users to get their bearings and to proceed with confidence. The Yahoo Repeater and Repeater-Builder groups are also excellent general resources for repeater builders on any band. It's been my experience that the owners and trustees of existing 900 repeaters are also willing "Elmers". In the following I've identified additional resources.

Store-bought: If you're an incorrigible appliance operator, the 900 band may not be for you yet. Exceptions:

- Plunk down some serious, but well spent, money and add one of DownEast Microwave's excellent 900 transverters ahead of your existing 440 FM radio. I'm pretty sure you'll be able to accommodate most (probably all) of the SERA 900 bandplan splits in this manner if your 440 radio can define 25 MHz and/or 12 MHz splits.
- Consider a wired or kit 900 MHz transmitter and receiver from Hamtronics
- Wait for one of the ham radio manufacturers to come out with a transceiver that includes the 900 band. While they may never see a market for a hard-core, dedicated 900 radio, they will certainly add 900 to a 440 or 1200 MHz model sooner or later.

Not quite store-bought: Another option that is *essentially* plug-and-play is to find a surplus 900 band commercial radio that is good to go with only reprogramming (i.e., no circuit/hardware mods required). The radio that I'm most familiar with in this category is the Motorola Maxtrac GTX 900 portable (a.k.a. HT). However, there are other mobile and HT brands/models out there that will work with programming only (no mods).

Modified commercial radios: Surplus commercial radios that may be modified (and programmed if necessary) for use in 900 band repeater or mobile/base applications are readily available. Most of my 900 radios have come from eBay, for example.

GE-Ericsson crystal controlled 800 MHz and 900 MHz radios (if you can find them) may be modified for 900 band operation with a 12 MHz split. Check out the **www.rtzaudio.com/kg4lne/phoenix.htm** web site and the Yahoo GE group for more information.

Kenwood TK-931 and other 900 radios are synthesized, and work with a 25 MHz split. There doesn't appear to be a Kenwood Yahoo group or dedicated web site for these yet, but the Yahoo AR902MHz group mentioned earlier has a grip on it.

Motorola 900 MHz Maxtrac, Radius, and GTX models are all synthesized, and are always (to the best of my knowledge) modified for a 25 MHz split. Also, some Maxtrac 800 MHz models may be modified to work very well in repeater Rx (input) applications in the 902-903 MHz region, but cannot be made to transmit or receive in the 927-928 MHz range due to inherent VCO limitations. The **www.batlabs.com** web site and Yahoo Motorola and Motorola-User groups will swiftly make you a Moto 900 radio expert.

E.F. Johnson produced several 900 MHz models that may be modified fairly easily for a 25 MHz split, plus an 800 MHz model that can be coaxed to 902 Rx for repeater input use. Check the Yahoo **efjmultinet** group.

LETS TALK ABOUT PROGRAMMING

The back side (more literally, backside) of nearly every approach to coming up with 900 FM amateur radio equipment, save the aforementioned transverter approach, is that you will need to either get someone who possesses the appropriate software and (perhaps) the interface cable/circuitry to program it for you, or else invest in the where-with-all with which to do it yourself. In other words, none of these radios except the crystal-controlled ones are technically

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ACRES OF FLEA MARKET -- INDOOR DEALER BUILDINGS
CAMPING -- FOOD -- FORUMS -- PRIZES

ARRL Sanctioned and Proudly Sponsored by the Shelby Amateur Radio Club!

VOLUNTEER EXAMS BY WCARS/VEC

Saturday, August 30th at 2 PM and Sunday August 31st at 2 PM at the CLEVELAND COUNTY OFFICE BUILDING, next to Food Lion and adjacent to the Hamfest grounds. NO PRE-REGISTRATIONS -- **WALK-INS ONLY.**

FOR MORE INFORMATION CONTACT: **Norman Harrill, N4NH, No. 7 Skylyn Court, Asheville, NC 28806**

Applicants must bring original and photocopy of present license, any certificates and picture I.D. to the examination session. Make Checks Payable to WCARS/VEC for $10

AWARDS! AWARDS!

ALL AWARDS OBTAINED THROUGH KENWOOD

PRE-REGISTRATION AWARD -
Kenwood HT w/charger - Drawing at 9 AM Saturday, August 30th.

MAIN AWARDS -
Kenwood HF Transceivers - Drawings 2 PM Saturday & Sunday.

HOURLY AWARDS -
Kenwood Two Meter Transceivers given hourly
Drawings Saturday, Aug. 30th, and Sunday, Aug. 31st, beginning at 9 AM thru 1 PM.

We reserve the right to replace a listed prize with one of equal or higher value in the event of unavailability.

NO member of the Shelby Amateur Radio Club or immediate Family is eligible to win any Awards.

Visit our web site at: www.shelbyhamfest.com

DEALER CHAIRMEN

Inside Dealers:
Barbara Elliott N4MRZ
P.O. Box 191
Fallston, NC 28042
Phone: (704) 538-7919

Outside Dealers:
Mark Beaver KA4TFP
704-487-7574

GENERAL HAMFEST INFORMATION CONTACT:

John Ledford, W4JL
9555 Knob View Drive
Vale, NC 28168
Phone: (704) 462-4910
E-Mail: w4jl@shelby.net

or

Geraldine Lovelace, W4GBL
719 Washburn Switch Rd.
Shelby, NC 28151
Phone: (704) 434-2140
E-Mail:
w4gbl@carolina.rr.com

GATES OPEN AT 6 AM
SATURDAY AND SUNDAY!
Bldg. Exhibits Open at 8 AM

The Shelby Hamfest

LOCATION - Cleveland County Fairgrounds on US 74 Business, at intersection of NC 180, 3-1/2 miles east of Shelby, NC.

FACILITIES - Indoor buildings for new equipment dealers. Over 15 acreas for all types of tailgating. Lots of FREE parking outside grounds.

REGISTRATION - $5.00 for pre-registration and $6.00 at the gate. All tickets good for both days. Children under 12 FREE. Pre-registration ticket requests received after August 24th will be held at the front gate.

OVER-NITE CAMPING - Facilities include over 40 sites with full hook-up, water, sewer and electricity. Sites available on a first-come basis and **none will be reserved under any circumstances.** Unlimited field space for self contained units.

- ✓ $15.00 per day for full hook-ups (Power, Water, Sewer)
- ✓ $10.00 per day - Camping with Power & Water
- ✓ $5.00 per day for Tent Camping (Space Only)
- ✓ $5.00 per day Add'l per day for Tent Camping with Power

ATTENTION MOTOR HOMES: If you must drive your motor home away from your campsite, please notify the camping committee chairman, and receive your "Campsite Occupied" sign.

FLEA MARKET - The Shelby ARC reserves the right to limit the amount of flea market space which cannot be reserved, and is on a first-come basis, and not transferable.

CHARGES: $10.00 for each 10-feet of space. Gates open at 6 AM Saturday and Sunday. **VENDORS** requiring tents contact: Mark Beaver KA4TFP, 2007 Taylor Rd., Shelby, NC 28152, 704-487-7574, ka4tfp@carolina.rr.com

ACTIVITIES - To be held **in Tent just below Fire Station.** 10:00 AM. **Sunday School** will be followed by **Bingo** for ladies.

SATURDAY FORUMS - **Will be held in the Fairgrounds Fire Station Meeting Room.**

10 AM	ARRL Forum
11 AM	MARS Forum
1 PM	SKYWARN Forum
2 PM	DX Forum

SUNDAY FORUMS - Will be announced at the hamfest. For more info, contact Claude Oakes, NC4NC (704) 480-0050.

FREE PARKING - For Attendees - Across road from Fairgrounds Main Entrance on paved, lighted lot.
HANDICAPPED & TAILGATERS use gate near intersection of US 74 Business and NC 180

PLEASE NOTE - No X-rated material to be displayed or sold. No guns or any other type of weapons permitted at hamfest.
HAMFEST TALK-IN ON 146.88 - **HAMFEST INFO LINE** (Beginning Aug. 24th) - Direct line at Hamfest Site: (704) 480-6928

Some of the motels in the area are listed below. They recommend that you call well in advance - reservations may be a problem.

SHELBY, NC MOTELS
Holiday Inn Express - (704) 480-0881
Hampton Inn - 1-800-HAMPTON
Super 8 Motel - 1-800-800-8000
Days Inn - 1-800-892-0418
Econo Lodge - (704) 482-3821

KINGS MOUNTAIN, NC (Exit 8 - I-85)
Comfort Inn - 1-800-221-2222
Ramada Inn - (704) 739-2544

GASTONIA, NC
Mid-town, Howard Johnson, Scottish Inn, Knights Inn, Econo Lodge, Hampton Inn, Innkeeper

LINCOLNTON, NC
Town & Country

GAFFNEY, SC
Days Inn, LaDel Motel, Comfort Inn, Holiday Inn Express

FOREST CITY, NC
Gardo's Big Horn, Goodes, Henderson Inn, Comfort Inn

HICKORY, NC
Howard Johnson, Holiday Inn, Mull's Ramada Inn.

2003 SHELBY HAMFEST PRE-REGISTRATION FORM

RJ-8-03

I would like to Pre-Register for The 2003 SHELBY HAMFEST!
Enclosed is my check for: _______ Hamfest Tickets at $5.00 each. Total:______________
Children under 12 years-old FREE!

Mail Completed Pre-Registration form with your check. Include SASE for return of your tickets.
This is a gate admission ticket order only. There is a separate ticket for flea market space. It will be $10.00 for each 10 ft. of space.

Call____________Name______________________________
Address_______________________________________
City________________________State________Zip________
Phone: [ ] ________________________

Mail completed Pre-Registration form with your check. Please include **S.A.S.E.** for return of tickets

MAIL TO: SARC
P.O. BOX 2206
SHELBY, N.C. 28151-2206

Pre-Registration tickets will already be in the barrel.

Note: No member of the Shelby Amateur Club or immediate family is eligible to win any awards "user-programmable", per se.

Typically, the necessary software must be purchased at a cost of $250-350, and is strictly licensed. Who has it? Dealers and service shops, for sure — and they'll usually charge you a very reasonable $25 or so to program a radio to your specs. If you can find another ham (a 900 repeater owner, for example) who has already made the software investment you can probably negotiate a freebie.

I've also heard that there are a few ne'r-do-wells out there, with shady copies of the programming software, who will do it as a favor. Shame on them!

In all seriousness, this is an honesty/ethics/good-common-sense issue for all of us, and I do not wish to make light of it. I suspect, however, that commercial companies are much more interested in busting those who would try to turn a profit on unlicensed software than hams who instantly rush to battle in the public service during any communications emergency. (There — that oughta' hold 'em off, ya' think?)

"SYNTHESIZERS RUINED 2M"

I raised a few eyebrows with this comment recently in a 900-band presentation to the SERA staff during our Summer 2003 meeting in Pigeon Forge, TN. I didn't mean it literally, of course. Synthesized FM radios were a wonderful addition to ham radio. What I really meant is that the lack of proactive repeater coordination caused the problems. Sometimes I leave out a chapter or two between sentences.

When the first 2-meter repeaters became available, every radio in the world was crystal controlled. (My favorite was my noble old 12-channel Regency HR-2a, which I still have.) The first repeater in town was always set up on 146.94; the next one took 146.67, and so forth. If you were far enough away you started over with 146.94. You get the idea. Don't hold me to these exact pairs, but that's very close to the way it went. Everybody cooperated, and life was good. PL tone was neither required, nor even thought of.

Alas! Along came the first crop of synthesized, user-programmable, memory-intensive 2 meter radios from the "Big 3" that extended to mobile/base FM a new total frequency agility that seemed to be the answer to every problem (most of which didn't actually exist yet, but shortly would in an unfortunate unfolding of events). From this point on it was seldom necessary to plan and think about repeater pairs logically; if there's interference, just change the frequency pair, tone, or both.

The entire USA is now floundering (nay, drowning) in the ensuing morass of 2-meter repeaters over the subsequent years leading to the present. For example, there are presently 1150-1200 2-meter repeaters in the eight SERA states alone, using combinations of 85-90 different repeater pairs and over 25 different PL tones. It now takes a bushel basket full of programmed-in repeater pairs and PL tones to communicate while traveling cross country any significant distance. One could have the same pair programmed in ten memory locations with different PLs, and still not have the right PL for a repeater a hundred miles away using the same pair.

If one projects the above numbers on a square mile basis the result is an estimated (I didn't actually count 'em) 12,000 2-meter repeaters currently in operation across the USA, all using repeater pair/PL combinations similar to the ones shown above.

Even with today's multi-channel synthesized radios it would be difficult to impossible to program into one radio enough 2-meter repeaters at once to enjoy continuous repeater communication even while traveling within the eight SERA states alone. And this doesn't even begin to consider the other PITA issues, like trying to even FIND the right repeater in memory once it's programmed in.

On the other hand... uninterrupted and zero-interference cross country 2-meter mobile repeater operation could be easily accomplished anywhere in the USA today with only four to six different frequency pairs and a single PL tone, had there been some organized, proactive coordination in the beginning. Unfortunately, we couldn't (or at least, didn't) predict that then—either on 2 meters, or on any VHF and UHF band that followed.

Now, however, we are faced with a new challenge and attendant opportunity to do it right — on 900. It is virgin territory. No insurmountable existing barriers to a proactive approach. How might we handle it?

Read on.

CURRENT 25 MHZ SERA BANDPLAN

If you check out the SERA 900 band plan you'll discover the following 25 MHz split pairs and simplex frequencies. This is well nigh unto perfection, with the possible exception of the two simplex frequencies specified. 906.5000 simplex will not work with most available 25 MHz split radios due to inherent, insurmountable VCO design constraints, and 927.7500 is not being actively used anywhere in the USA that I am aware of.

Input/Output	
902.4875/927.4875	902.6125/927.6125
902.5000/927.5000	902.6250/927.6250
902.5125/927.5125	902.6375/927.6375
902.5250/927.5250	902.6500/927.6500
902.5375/927.5375	902.6625/927.6625
902.5500/927.5500	902.6750/927.6750
902.5625/927.5625	902.6875/927.6875
902.5750/927.5750	902.7000/927.7000
902.5875/927.5875	902.7125/927.7125
902.6000/927.6000	902.7250/927.7250
Simplex:	902.7375/927.7375

906.5000 (National) 927.7500 (SERA)

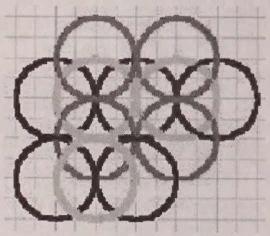
SUGGESTED 25 MHZ BANDPLAN

Below is shown what I recommend for consideration as an alternative to the current SERA 25 MHz split 900 bandplan, and possibly as a candidate component of a new *National* 25 MHz split 900 bandplan that would be acceptable to all.

What you see is an example arrangement of standard SERA 900 bandplan 75-mile-diameter circles, each of which defines the official interference boundary of a coordinated 900 repeater.

Imagine the repeater circles as follows:

black = 927.4875(-)
light gray = 927.5125(-)
dark gray = 927.5250(-)



If an additional pair is absolutely needed beyond this, it would always be the next one in sequence, with no exceptions. All would use PL 100.0.

Note that I've skipped 927.5000(-), which would be eliminated from the frequency pair pool, allowing 927.5000 to assume its hard-earned and rightful role as the official (rather than merely the solidly entrenched *defacto*) national simplex calling frequency. In short, it would be grandfathered.

All existing 902.5000(-) repeaters would also be grandfathered if the owners could not be convinced to change frequency. Their coexistence within the new bandplan would still be peaceful and uneventful.

Fifteen repeater pairs would still remain as a wonderful repeater or simplex playground for others on a local basis, using any (or no) PL tone, as they choose.

Finally, let me hasten to admit that what I'm showing here is clearly an idealized example. However, actual paper plots in several of the SERA states predict that it is also very viable from a practical standpoint. I invite all to challenge me on this important point.

There is a *caveat*: A vital key to the success of this proposal is the unrelenting proactive assignment of successive coordinated repeater pairs, beginning with the lowest pair, as shown below. This approach will prevent the aforementioned "synthesizers ruined 2 meters" syndrome from ever trashing the 900 band, but will not compromise the band's effectiveness. This is the way it would look:

Proposed 900 MHz Bandplan

Input/Output
902.4875/927.4875
902.5000/927.5000
902.5125/927.5125
902.5250/927.5250
902.5375/927.5375
902.5500/927.5500
902.5625/927.5625
902.5750/927.5750
902.5875/927.5875
902.6000/927.6000
902.6125/927.6125
902.6250/927.6250
902.6375/927.6375
902.6500/927.6500
902.6625/927.6625
902.6750/927.6750
902.6875/927.6875
902.7000/927.7000
902.7125/927.7125
902.7250/927.7250
902.7375/927.7375

927.5000 (National)

Based on what I've discussed so far, my geometry and math calculations have produced the following approximate results for several idealized scenarios, where the interference boundary for each adjacent repeater is defined by (R = 37.5 miles). Please also refer to the earlier illustration to understand the progressive superimposition required to achieve a theoretical 98% coverage:

Square Miles	Coverage (%)	Rptrs. Req'd.
393,750 circle	78.5	70
(arbitrary 10x7	95.1	124
arrangement)	98	187
341,260 (eight SERA states)	98	162
3,537,441 (entire USA)	98	1680

TOTAL USA COVERAGE WITH TEN CHANNELS

The whole idea here, of course, is to find a way to get by for mobilin' and simplex anywhere in the USA, using the ten channels maximum available on a typical converted commercial 900 radio. Here's just one of several possible programming approaches for achieving that, provided we first get all of the repeaters right.

Ch	Rptr. Rx	Rptr. Tx	PL
1	902.4875	927.4875	100
2	927.4875	(repeater output/simplex)	100
3	902.5125	927.5125	100
4	927.5125	(repeater output simplex)	100
5	902.5250	927.5250	100
6	927.5250	(repeater output simplex)	100
7	902.5375	927.5375	100
8	927.5375	(repeater output simplex)	100
9	927.5000	(National simplex)	(none)
10	(wildcard)	(wildcard)	(wildcard)

Maybe the Ch. 10 "wildcard" in the above chart should actually be programmed the same as Ch. 9, but with PL 100.0 added? This could be used to clear the calling frequency but continue the QSO. I don't know — you tell me.

WHAT ABOUT 12 MHZ SPLITS?

No problemo. I've merely used 25 MHz splits in this article as an example. Handle 12 MHz splits exactly the same way. Repeaters using the two different splits will never be aware of each other. As explained earlier, you'll probably need two radios to cover both splits — but that looks even *more* impressive under the dash. In fact, with two radios, one might be able to fill in coverage gaps usefully in some areas. I have no strong feelings either; it's just that I was "born and raised" on the 25 MHz split.

WHY THE PL 100.0?

Since hams share the 900 band with a lot of other non-ham stuff (including those pesky cordless phones), this minimizes (and usually eliminates) the problem. I do strongly feel that PL should be eliminated for national simplex frequency purposes, however, for maximum ability to initiate/respond on that frequency.

ANY GOTCHAS FOR REPEATER OWNERS?

For new repeaters: None that I can think of.

For updating existing repeaters: To adapt an existing 900 repeater to the new plan you may need to

- Retune duplexers, bandpass filters, etc.
- Reprogram or re-crystal Rx/Tx
- Re-coordinate
- Get your current users to switch to the new repeater pair.

BAND CHARACTERISTICS

In my experience with 900 FM mobile and base operation, the band characteristics are about the same as for the 70 cm band. On the other hand, it's theoretically possible to achieve twice the gain with the same antenna length.

In-band competition: Many 900-band ham repeaters are forced to compete with commercial 900-band cell equipment (paging, etc.) that may be located only a few feet away. Good old ham ingenuity and filtering usually deals with this successfully, leaving the 900 mobiles and base radios out there to deal only with an occasional 900 cordless phone in the local neighborhood. I have not yet found this to be a showstopper, and the situation appears to be improving.

HOW DO WE MAKE IT ALL WORK?

Well, maybe we could initiate some dialog:

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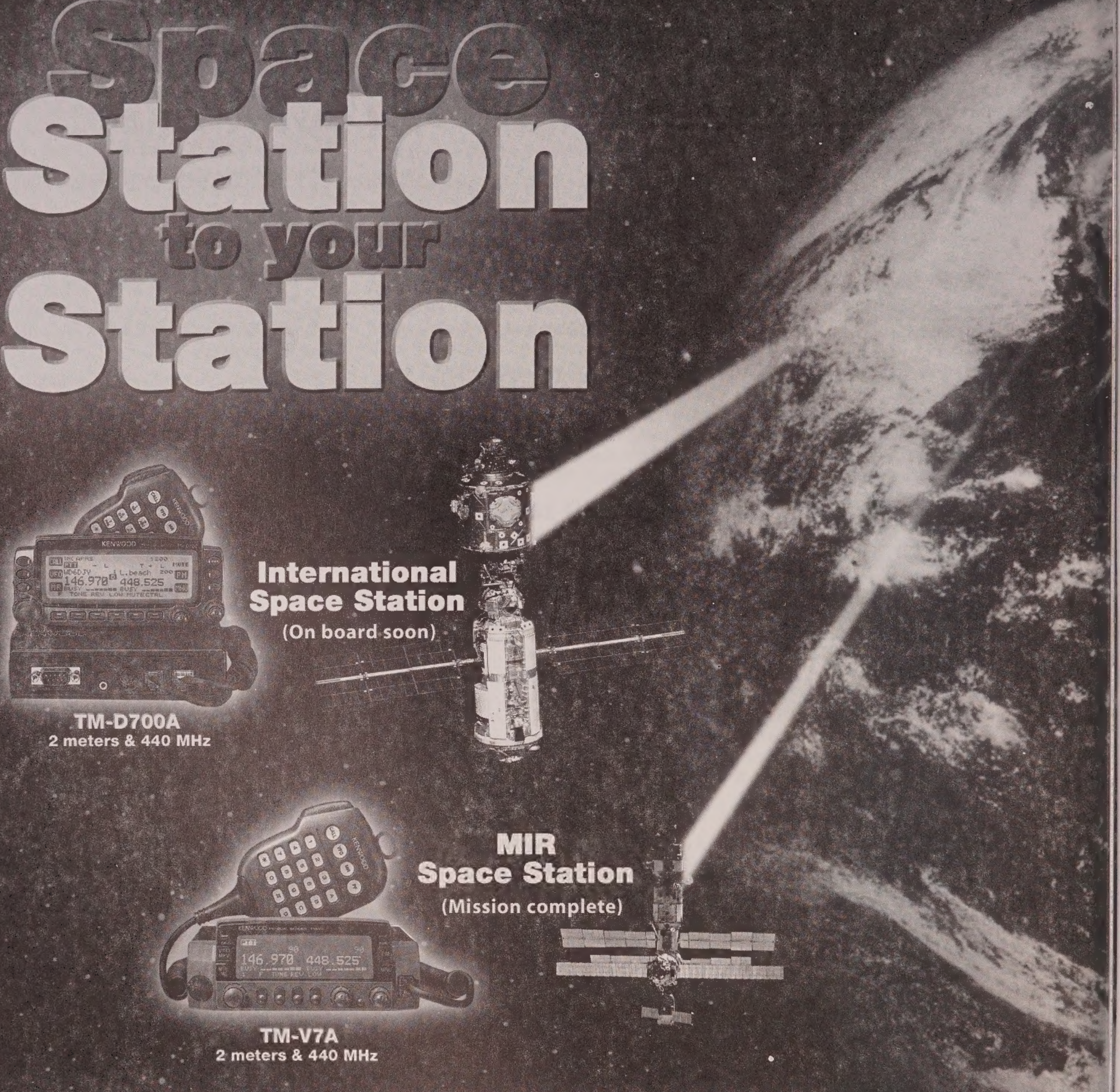
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The Chosen Few

Kenwood is proud to be the only company chosen as a participant in both the INTERNATIONAL SPACE STATION (ISS) and MIR space programs. The TM-V7A received awards from the Russian Space Agency for its flawless performance aboard MIR. The KENWOOD TM-D700A 144/440MHz FM Dual Bander is scheduled to join the International Space Station in orbit later this year. But is it any wonder? This world class voice and data communicator has technologies which are perfect for any mission, whether on planet earth or in outer space. This all goes to show that operating a Kenwood Amateur Radio is out of this world.

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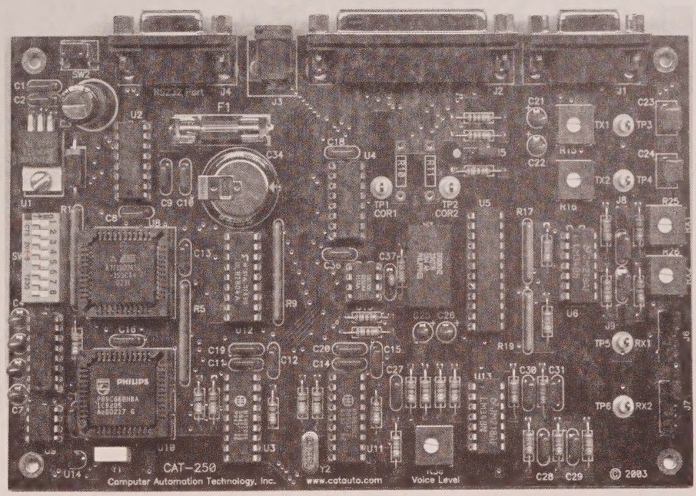

Options Include:

** 19" Rack Mount Enclosure: $49.00*
** Computer Interface with Windows® Editor on CDROM: $39.00*

CAT-250 Repeater Controller: $249.00

For detailed information including a complete manual, visit us at www.catauto.com

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15th Annual

JARSFEST 2003

ARRL Sanctioned Hamfest

SUN. NOV 16

8:00 A.M. TO 4:00 P.M.

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OPENS 6:00 AM

NOTICE
Due to local ordinances and club policy, neither weapons nor pornographic material may be displayed or sold at the JARSFEST site.

Local Lodging:
DAYS INN (919) 894-2031

EXAMS BEGIN: 10:00 AM (SHARP)

Amateur Radio Exams (Courtesy of RARS VE TEAM)
WALK-INS ONLY. Bring your completed FCC Form, photo copy of your current license (if applicable), and photo ID. Cost payable at test site by cash or check.

To Reserve Space or More Information Call: (919) 894-3352, 894-3100, (7:00 PM – 10:00 PM)
E-Mail: blambert1@mindspring.com

Please Print Clearly

JARSFEST 2003 Pre-registration

Make Checks Payable To JARS

NAME ____________________ CALL __________

ADDRESS ______________________________

CITY ______________ STATE __________ ZIP __________

PHONE (_____) ____________________

_______	Pre-registration Tickets	@ $4.00 ea.	$ ________
_______	Indoor Fleamarket Tables	@ $10.00 ea. plus registration	$ ________
_______	Outside Tail Gate Spaces	@ $5.00 ea. plus registration	$ ________

Pre-registration Requests Received Without An S.A.S.E. Or After November 5th Will Be Held At The Door

Johnston Amateur Radio Society, Inc. P.O.Box 302, Benson, NC 27504
http://www.jars.net

- Get everybody (ARRL, NFCC, coordinating bodies, repeater owners, repeater users) on the same page
- Coordinate proactively
- Possibly use a supplication like the following to "re-orient" new repeater builders who attempt to stray from the "plan":

> Dear (applicant): The (Frequency Coordinating Body) acknowledges your request for coordination of a (Out/In/Tone) repeater at (lat-long). Rest assured that such a coordination request appears to meet all (coordinating body) requirements, and will likely be granted if you prefer it. However, we'd like to offer an attractive alternative. As you are surely aware, most 900 MHz transceivers used in mobile operation are modified commercial radios and have a limited number of available frequency channels. These channels must be programmed by someone (typically a shop) who owns a programming interface and a legal copy of the programming software. Changing channel frequencies always required reprogramming. On the other hand, a (out/in/tone) repeater pair at your proposed location would provide significantly more efficient use of the 900 bandplan and would better support the (Coordinating Body's) long term objective of enabling continuous coverage for mobiles using 900 while traveling cross-country in the USA. Please review the enclosed diagrams, which show how efficient this plan would be.
>
> Thanks, (Coordinating body)

THE FUTURE OF 900

Gary KN4AQ, *RJ* editor, asked me recently if I thought 900 would ever be more than a niche band. My honest answer to his question would have to be, "I hope not!" I'd like to see it exploited only by serious hams whose primary interest is the advancement and enjoyment of the technology of ham radio. A cut above the status quo, but still short of waveguides and horns. Neat playground.

THERE'S STILL TIME TO DO IT RIGHT

In a nutshell, I'm asking the RJ readers if cooperation is possible between repeater coordination bodies across the USA, so that hams can get the maximum enjoyment out of 900. For example:

- Shouldn't the coordinating process and guidelines for the 900 band be exactly the same everywhere in the USA?
- Can committees from each of the coordinating groups across the USA (including SERA) meet with each other to talk and listen?
- Can we all forget about whose idea something was or who thought of what first. Who cares?
- If we can't all agree on a single bandplan, shouldn't we all just treat 12 and 25 MHz splits the same as we would treat separate bands, and simply use two different extremely affordable 900 radios in our mobile or base installation?
- Could we then not expect the ARRL, NFCC, and FCC to deal with all 900-band controversy, bureaucracy, rules, and enforcement, leaving SERA and the other coordinating bodies to concentrate on coordination?

BOTTOM LINE

Please take another look at our 900 FM band in light of what I've presented here, and decide whether it makes enough sense to pursue this further, or if we should simply let nature take its course.

If you feel we should grab the bull by the horns, then let's join forces to flesh out this delightful band resourcefully as we move through the future.

Either way, I'm very interested in your comments (including any errors you may have spotted), and your opinions. If you want me to write more about 900, let me know that as well.

-Vester N8EKA

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Radio Amateur Club of Knoxville turns 50!

By Dick Wolf WI8X*

Those who can, set your memories to rewind, and wind all the way back to 1953, the first year of the Eisenhower administration. You could buy automobiles from Kaiser, Studebaker, Packard, Hudson, Fraser, DeSoto, Aero Willys, and Nash. Ford Motor Company wouldn't build any Edsels for four more years, and it was Chrysler Corporation, not DaimlerChrysler. Chevrolet introduced the Corvette. Only 300 were built that year.

Gonset, Hallicrafters and National vacuum tube rigs were popular. On the bands, something called 'single side band' was gaining interest. In addition to all this, there was a landmark event in Knoxville, Tenn.: what became the **Radio Amateur Club of Knoxville**, or **RACK**, formed. 2003 is the RACK's 50th anniversary.

EARLY DAYS: 1953-1963

Six early RACK members told six versions of the RACK's beginning. **Jean Giesler W4TYU** and **Henry French W4SVC** remembered that "a Civil Defense group wanted Amateur Radio operators to set up a station." **Bob Oswald W4HI** told another story. Others remembered a Fountain City club that evolved into RACK. Still others had another story. And no two stories agreed! So let's try it this way: in 1953, says **George Dominick W4UWC**, some amateurs set up "The Ten Meter Tennessee Valley Emergency Radio Net." They changed the name to "**Radio Amateur Club of Knoxville,**" and its acronym, "**RACK.**" Giesler said, "The early club had around 25 members, and our meetings drew between 15 and 25."

During the first decade, the RACK held meetings, staged picnics, put on Field Days, and socialized, much as it does in its 50th anniversary year. Members went on 'hidden transmitter hunts' (they were not called 'fox' hunts then), and operated mobile from a Civil Defense Bus. It housed a gasoline generator, an HF station, and three Gonset Communicator transceivers operating on six meters. One Gonset stayed on the bus and two were used for mobile linking during emergencies. The bus saw service at RACK Field Days and SETs — with the drills designed to verify how Knoxville and Nashville could link up on 75 meters, and with 6 meters providing the local linkage.

The club began instruction for Novices, and **Dick Ingram W4PHW** named the club's publication: '**RACK Panels**.' **Allen Johnson K4DSC,** an early editor, produced issues on a Mimeograph machine, and RACK members installed a ham station on a Knoxville bank. In 1958, RACK incorporated with the State of Tennessee. RACK was on its way.

THE NEXT DECADE: 1963-1973

Jet aircraft travel was commonplace, the Interstate highway system, begun in 1955, linked American cities with faster, safer roads. Most of the automobiles mentioned above had vanished, while Nash and Hudson merged to become American Motors. By 1969, American astronauts landed on the moon and returned safely. And something called a 'repeater' made its debut, foretelling the now-ubiquitous cell phone.

Single side band (SSB) rapidly displaced AM as the prime voice mode. Transceivers became popular, especially those manufactured by Swan, World Radio Lab, Heathkit, and others. Long before RACK had its first Hamfest, RACK had auctions and received a 'commission' on items auctioned. By 1966, the big regional hamfest was in Crossville, Tenn., and some RACK members thought they could mount a hamfest in Knoxville. "We were talking," says **Cliff Van Eps WB4CXC**, "and decided, 'we're going to have a hamfest.' And we did!"

In 1967, Van Eps chaired the first RACK hamfest at Chilhowee Park in Knoxville, under a picnic shelter. Ten-Tec donated two QRP rigs as prizes. Dick Ingram W4PHW brought a trailer full of WW II surplus Japanese military radios. About 60 people attended and the 'fest was deemed a success. "Later, when the 'fest outgrew the shelter," says WB4CXC, "it moved to the Jacobs

THE RACK REPEATERS AND NETS

David Waters AC4JF, Ray Adams W4CPA and **H. P. 'Wimpy' Oxendine KA4LEO** tell the RACK repeater story. **George Shaver W4HXD** (SK), said to have had the first repeater in East Tennessee, built a transmitter building on Chilhowee Mountain. RACK leased the site in 1975, and W4HXD donated his building to RACK.

Ray Adams W4CPA, Jean Giesler W4TYU, and others put RACK's first Chihowee site repeater, 147.300 MHz, on the air in 1977. 224.500 MHz went on in 1983. 444.575 MHz, in 1996. And the 53.77 MHz transmitter went on in 2000. The 145.210 MHz repeater, with phone patch, went on atop Black Oak Ridge in 1987, during **Jerry Whetstone N4IJL**'s presidency. Later, it moved to Sharp's Ridge. In 1993, 145.210 hosted 45-50 phone patches a day. Now, even with cell phones, 145.210 hosts about 15 patches a day.

Robin Rumboldt WA4TEM linked the 2 meter and 224.500 machines, allowing a system remote control. The 147.3, 224.5 and 444.575 MHz repeaters were first linked on a regular basis in 1991. The 6-meter receiver, 52.77 MHz, went on at Top of the World in 2000. David Waters AC4JF, RACK repeater trustee since 1992 says, "Many repeater owners like high power. However, I find that somewhat lower power reduces receiver desensing and maximizes wide area coverage."

Currently, RACK repeaters host six nets:

9 pm Sunday	(53.77 MHz FM; 50.2 MHz SSB); NC **David Bower K4PZT**.
9 pm Monday	(technical, 147.300, 224.500 and 444.575 MHz linked repeaters); NC **Jerry Whetstone N4IJL**.
8 pm Tuesday	('Fun Net,' 224.500 linked to 444.575 MHz); NC **Mike Watkins KG4FSX**.
9 pm Tuesday	(emergency and ragchew, linked repeaters); NC **Jerry Fontaine N4VQY**.
9 pm Wednesday	(METERS, linked repeaters); rotating NCs.
9 pm selected Thursdays	(radio/astronomy, linked repeaters); NC **Paul Lewis W2HST**.

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Building at Chilhowee Park, where it stayed until the 1980s."

THE THIRD DECADE: 1973-1983

Not only were Japanese cars popular, Japanese Amateur Radio rigs were, too. Kenwood, ICOM and Yaesu all introduced feature-packed transceivers to U.S. hams. An unfortunate byproduct was that American manufacturers, including Heathkit, had trouble competing. Most transceivers of this era combined transistors with vacuum tubes, with tubes as drivers and finals. 1978 was RACK's 25th year.

Bill Brazelton WA4USW remembers: "**Harry Kroll WB4NFI** was president in 1976. We met in the old TIE building on Broadway. Dues were $1.50 per year. I suggested to Harry that the club needed a financial budget. As in most cases, the one making a suggestion to a president usually is stuck with implementing the suggestion. At least it was in my case.

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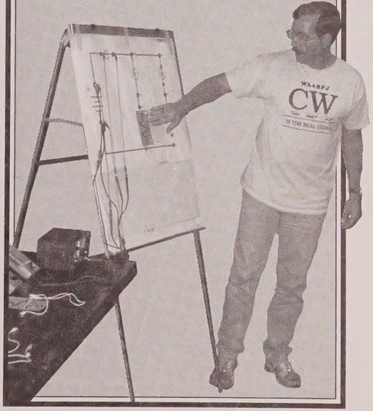

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"I made a list of all the activities and expenses, and for each activity or expense I attached a dollar figure. Added some for contingencies and totaled it up. To meet the requirements, the dues would have to be $7.50. The RACK board learned that other clubs' dues were $10.00, and made dues $10.00. The club prospered and exceeded all expectations of the original budget.

"I was elected 1977 president and got some local electronics stores to donate small items for door prizes. **George Dominick W4UWC,** at Bondurant Brothers (an electronics store no longer in business), was always good for a roll of solder or needle-nose pliers."

RACK's **W4BBB** call was originally held by member John Bell, a graduate student in physics at the University of Tennessee. After he became a Silent Key, RACK requested and received the call in 1979.

A 1982 CVRA Journal (now SERA Journal), featured an extensive history of RACK's participation in the 1982 Knoxville World's Fair. University of Tennessee Broadcasting/Journalism Professor **Ed Dunn W4NZW** (SK), 1982 RACK president and also chair of the Tennessee Wireless Association, Inc. (TWA), sponsored **WA4KFS**, the World's Fair Amateur Radio Station, which operated from May through October 1, 1982. Then-Tennessee Governor Lamar Alexander issued a proclamation declaring June 21-27, 1982 as "Amateur Radio Week" in Tennessee.

Then-ARRL president **Vic Clark W4KFC** and then-Delta Division Director **Clyde Hurlbert W5CH** spoke at RACK's Delta Division Hamfest. **John Rutherford N4CEJ**, Hamfest chair, secured **Wayne Green W2NSD/1**, of *73 Magazine* fame, for an after-supper talk. Following the World's Fair, the RACK Hamfest moved to several sites, including Kerbela Temple, and to the Knoxville Convention Center in 1990. RACK membership increased significantly, to around 400, then the largest club in Tennessee.

THE FOURTH DECADE: 1983-1993

Minivans and SUVs gained popularity. Pickups became an urban mainstay. Solid state transceivers were the norm. Dual- and tri-band VHF/UHF mobile FM transceivers were popular and new, smaller HF transceivers began to appear, making HF mobiling easier. Creative mobile HF antennas, including commercial as well as homebrew versions of the 'bugcatcher' and 'screwdriver' antennas, sprouted on vehicles.

RACK funded a trip for three members to North Carolina WCARS to form a Volunteer Examiner team. The RACK group decided to join with WCARS instead. **Ray Adams W4CPA** was the organizer, and later devised an exam grading template using punched plastic that was adopted nationally by the ARRL.

H. P. 'Wimpy' Oxendine KA4LEO wrote RACK's first computerized member list. Soon, **John McHarge N4EAB** used a Commodore 64 to produce 'RACK Panels'. In 1988, **Nedja Moore N4KTK** and **Carol Whetstone N4LFR** became the RACK's first female president and vice president, respectively. N4LFR is the first female elected RACK president twice: 1989 and 2002.

THE FIFTH DECADE: 1993-2003.

SUVs got larger, got smaller, and appeared in increasing varieties, while handhelds and HF rigs got smaller and increasingly mobile. Kenwood, ICOM, Yaesu and Alinco introduced full-featured HF rigs that were no larger than many VHF-only mobiles. Shirt-pocket-size tri-band HTs offered more memories than you could program even if, it seemed, you entered every repeater in three surrounding states into the radio. Also, there was renewed interest in 1.25 meters. GPS, PSK31 and hand-held PDAs offered new digital operating modes.

Wimpy, editor of 'RACK Panels,' began using Avagio, installed by **Rich Slover ND4F**, integrating graphics and text. Now, Wimpy also posts 'RACK Panels,' with color graphics, on the club's Web site: **www.W4BBB.org**.

RACK moved its Hamfest to the National Guard Armory in 1998, staying there until moving, post 9-11, to the Cokesbury Center in 2002. The 2003 Hamfest and Electronics Exposition, June 13 and 14, featured **special event station K4H** and a 50th Anniversary recognition.

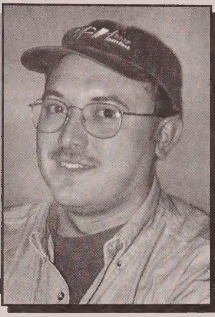
AND BEYOND 2003?

It's what you'd expect after 50 years: go for 50 more! At the 50th Anniversary recognition, **Carol Whetstone N4LFR** announced that the RACK achieved 501 (c)(3) tax status, allowing donations to RACK for tax benefits. Credit **Ray Adams W4CPA** and **Willard Sitton W4HZD**. **David Waters AC4JF** announced plans to lease a tower site at Top of the World, construct a transmitter building, erect a tower, install antennas, and donate everything to RACK. Others may realize tax benefits by donating to the RACK. What a way to start the next 50 years!

**Blame the following; they told me what to say: Ray Adams W4CPA, David Bower K4PZT, Bill Brazelton WA4USW, George Dominick W4UWC, Henry French W4SVE, Jean Giesler W4TYU, Dick Ingram W4PHW, Bob Oswald W4HI, H. P. 'Wimpy' Oxendine KA4LEO, Willard Sitton W4HZD, Cliff Van Eps WB4CXC, David Waters AC4JF, Carol Whetstone N4LFR. Author Dick Wolf WI8X is blameless; he transplanted from Michigan.*

Get the Hammer

And let's get technical



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AEROTRON MEGA

Hello again from the land of the new house! By the print time, I will be moved into the new house, and very glad to be done with the project! It has been two years since I started, and been a real experience! I still need to finish the garage and basement, but for now, Im just happy to be moving.....where did my wife get all this stuff????

As promised last issue, I'm going to hit the main parts of making a Aerotron Mega into a ham rig. I will not give detailed parts lists (to save space), but I will be glad to email my list to those who request.

The main issue with the Mega has always been the control cable plugs. They become intermittant and create some fun problems. I replaced the factory plugs with a simple DB 25s. There are enough connections to allow full op of the radio. So lets get started!

Before you start making changes, make sure it works on the business band! Then we can have a base line from which to start.

First is the VCO. Remove all the screws and covers, allowing you to remove the diode or eprom board. Most of mine have the four channel diode boards, but they also have the eproms....the VCO module is a solid chunk, and all that I have found have the VCO section covered with a brown goo.....helps prevent microphonics....so with a heat gun and some time, warm up the gell around the VCO adjust coil – you will need to remove the coil. After the goo is removed, turn the module over. My solution is to drill a hole in the box, exposing the leads for the coil. It looks scary, but with some planning, you'll have a hole over the leads. Carefully drill, don't destroy the board!

The D range Mega is my choice to move up to six meters. The VCO will drop off at the edge of the band, so a change in the VCO is required. Unsolder the two legs of the coil, and with the goo removed, you will be able to remove the coil. Carefully remove ONE FULL TURN of the wire, then clip it off, restoring the coil, just less inductance. Reinstall the coil back to the VCO. This will "speed up" the VCO to allow it to move into the tuning range for six meters.

The rest of the changes are replacing caps in the RX tuning stages. I used the manual to make educated guesses at the value, and some trial and error tuning. When it was over, I replaced 12 caps in the RX section, allowing .2 microvolt sensitivity, and suitable bandwidth.

The transmitter section made about half power after tuneup, and after playing with the coils, I left the unit alone, at half power (50 watts). Spreading some of the PA coils helped, and the current drain dropped. Further

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exploration in changing the cap values in the PA would require a lot of tedious soldering and possible damage.... besides 50 watts is plenty for a mobile on six. I've made a lot of contacts on mine and enjoyed the basically free rig.

The Mega was used in Virginia by several State agencies. Some are the C band for SIRS, while the best ones for Ham use are from the Highway Dept, D range. I recall NC also using the Mega, but not sure about the frequencies....

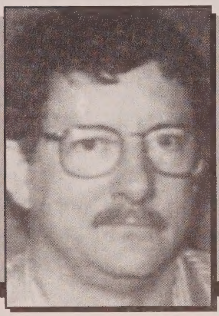
Programming the diode arrays is done the same as the standard programming, althought there is one bug that has not been cleared up. All of our test units will NOT do the 5 khz channel spacing. There is a programming option for this, but we never got it to work. It does however work fine on any 10 khz channel space (like most all repeaters in the SERA band plans) The limit here is the common simplex freq – 52.525 – so it was a small compromise, my interest was a few local repeaters anyway.

Overall, the Mega will make a great rig for a "conversion," but not for the beginner! The tuning can be alot of headaches without some knowledge. As for using a Mega as a repeater, it would require two radios, since the VCO is shared by the RX and TX. My preference is a GE MAster II or Motorola Micor for repeaters anyway. For a very cost effective rig, you can buy the Mega surplus, I found several and plan on some tinkering when I get my workshop back in business.

I would like to hear from you if you have the Mega and changed them. They have GREAT audio! My mods are basic changes that require soldering and some technical skill. Proper test equipment is a must also, but you can always ask around and find what you need.....

My current interest has been with Microchip PIC's and hope to be into some projects with them in the upcoming months. If you are into them, drop me a note, I'm interested in future articles with them as well as learning more about them. I'm needing a good programmer for the 16F627/8 and the 16F877, so if you know of some, drop me an email....

See everyone next time, maybe by then I'll have my hamshack setup in my new basement....I know I have some more ham gear packed away, just not sure of where the box is now.....geez...



Getting Started

advice for new hams

Jack Mood, SFO, W4HTX
3732 Ashley Hall Drive
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Today is the first day of . . . Ok, so where do we go from here? We can revel in the past, as most people can. We (as Hams) have been known to:

A: Save everything
B: What we're not saving, we pack rat
C: What we don't save or pack rat, we commemorate, and
D: All of the above.

I am joking a little, but I also want to highlight an idea that has been brewing for a time. I have been accused of living in the past, way too much. So, I am trying to remind us all to kind of review where we've been, and try to determine where we need to go.

The first part, I already have done. The second part is tougher. There is so much to choose from in amateur radio. The public service aspect has been done. I'm thinking of what can we do to make the hobby better, and in doing so, make the world better. We've got to think and use our collective imaginations.

Someone back in the early 1940's thought it would be great to be able to direct and control people on the battlefield. We now take the lowly handy talkie for granted. We wouldn't, if it had not been for the inventiveness of two hams, one Canadian, and one American. The miniaturization of parts gives us some pretty sophisticated handheld radios of today.

Attempts by hams to communicate over great distances experimentally has brought us worldwide relay nets, satellite communications, and instantaneous (or very close to it) coverage of news events around the globe.

VHF, UHF, and bands up to and including light (DC to daylight) are becoming more and more crowded. Ways to multiplex on those bands are in use in some commercial applications. Cell phone systems are using all kinds of time division multiplexing. I venture to say that we might just see some hams getting inventive and pushing the envelope even further.

And closer to the DC end of the spectrum, there are now a good number of people using extremely low frequencies to communicate. US Naval communications have been known to use this sort of mode in the past. What are we as inquisitive hams going to do to make all that work better? Make the world smaller? Make our country safer? Have a little fun while doing it? You bet!

And don't forget the basics, where most of the beginners reading this are now. Us older more experienced hams can become beginners again. We need to work on keeping it 'new'. We need to get into the new modes, and turn 'on' the feeling we had back when we were beginners.

So to quote one of the people I admire most, "So let us begin again, for up to now we have done little or nothing!" A gold star and recognition to the first person who gets the source of this quote correctly. I'll reveal the winner of the gold star and the source of the quote next column.

Keep the ideas flowing, and keep it new!
Thanks and until next time, I'm listening!

Nostalgic Wavelengths

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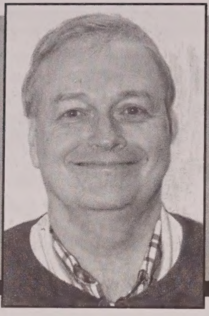

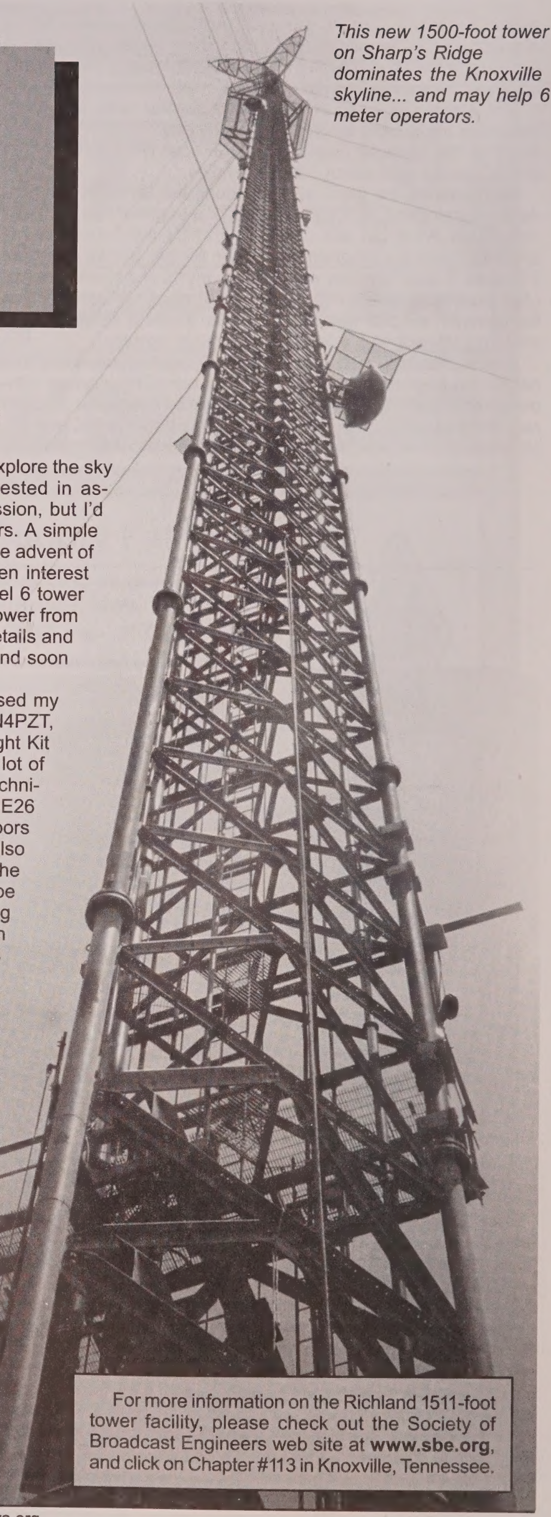

This new 1500-foot tower on Sharp's Ridge dominates the Knoxville skyline... and may help 6 meter operators.

Six Meters Gets Its Revenge

In the 1950s, before I was an amateur radio operator, I used to explore the sky with my home made 6 inch reflecting telescope. I'd been interested in astronomy since I was 8 years old. Amateur Astronomy was my passion, but I'd also developed an interest in electronics in my early teenage years. A simple crystal cup receiver was first, followed by other projects. And with the advent of television in Knoxville, Tennessee (my home), I'd developed a keen interest in this subject. I used to follow the construction of the new Channel 6 tower with my telescope. By day, I watched the construction of the 750 tower from my front yard. At 280 power, I could easily make out many of the details and even see the construction crew well. It was fascinating to watch, and soon the first TV was acquired in our home.

As the years passed, my interest in electronics grew and I passed my first amateur examination after entering high school. Licensed as KN4PZT, I hung out on 7183 CW with my trusty homebrew 807 rig and Knight Kit Ocean Hopper. I didn't make that many contacts, but I sure had a lot of fun. Longing for something more, I soon took and passed the Technician License. I constructed my first six meter transmitter using a 2E26 tube and 6V6 for plate modulation. It didn't take long for the neighbors to notice and, in addition to making DX contacts by E-Skip, I was also stirring up the Tennessee Valley Indians (TVI) in East Tennessee. The Channel 6 tower I watched go up a few years ago with my telescope was my enemy of sorts and I had to develop methods for minimizing TVI. Sometimes, it just involved pointing my beam away from certain neighbors. Other times, I simply limited my operation on 6 meters and stayed off the air during prime time TV.

Let's jump ahead about 45 years and re-visit the old TVI problem with 6 meters. Well, now cable TV is the primary delivery for home viewing. CATV trunk cabling is now fiber based in my area, for the most part, so the Tennessee Valley Indians have not been much of a problem. And, further, television receiver and amateur radio equipment design have vastly improved in 45 years. So 6 meters is now starting to make a comeback in East Tennessee. Now, to make things even better, the government has mandated television stations to fully upgrade to digital by the end of 2006. All the local VHF channels are moving to UHF. The old, reliable NTSC standard (analog TV) is scheduled to go "dark" after digital TV is fully in place, or so that was the idea when this digital TV plan was first conceived years ago. But more on this later.

This past July 3, I was attending a local Society of Broadcast Engineers meeting and we were going on a tour of the new Richland Tower to be used initially for two local digital UHF TV stations and an FM broadcast station (and this FM station just happens to be WUOT, the same station I first worked for). I've watched this 1511 foot candelabra tower being constructed on the west side of Sharp's Ridge for several months, although not with my telescope. It's near a major highway, so it's hard to miss. This impressive tower structure with a total weight ex-

For more information on the Richland 1511-foot tower facility, please check out the Society of Broadcast Engineers web site at **www.sbe.org**, and click on Chapter #113 in Knoxville, Tennessee.

ceeding 350 tons certainly dominates the Knoxville skyline. I thought back to my early years on 6 meters when TVI was such a concern. Now, the television stations are moving to the UHF spectrum for digital transmission. VHF Channel 6 will be moving to channel 26; Channel 8, WVLT, and one of the stations on this tower, will be moving to channel 30. This will be great for us serious 6 meter nuts. But lets jump back to the early 1960s.

In 1962, Amateur radio was a driving force in my selection of electrical engineering as a major at the University of Tennessee where I was enrolled as a student. By this time, I had my FCC First Class Commercial License so broadcasting was in my blood. It didn't take long to learn that the University of Tennessee had an FM radio station, WUOT, operating with an ERP of 68,000 watts on 91.9 MCs. I applied for a job and started work as a studio operator. I soon learned about operating reel-to-reel audio decks, turntables, studio control equipment and a rather ancient GE audio production console. The Chief Engineer for the station, Ray Shirley W4BTS, soon had me doing transmitter work on Sharp's Ridge (within a couple hundred feet of the new 1511 foot tower mentioned in the previous paragraph). This ancient REL FM transmitter had been donated a few years back by the company owning Channel 6 TV, the same station whose tower I watched being constructed in the mid 1950s. It was a real bear to work on. It had four 4-1000A tubes operating in push-pull/parallel and was tricky to neutralize.

While I was working at this station, I built my last 6 meter transmitter (pictured with this article). It had really good shielding and filtering to minimize TVI. It was the last AM transmitter I built, and it's part of my growing "museum" of old vintage amateur radio equipment. This job at WUOT as a student, and my interest in amateur radio, lead to my career in broadcast radio and television and a degree in electrical engineering - a career lasting almost 38 years. I retired in the year 2000.

Now in 2003, and being "fully" retired, I'm finding more time

Channel One?

Have you ever wondered what happened to TV Channel One? TV tuners since the early 1950's have started with Channel Two, which occupies the spectrum from 54 to 60 MHz, immediately above the Six Meter ham band, from 50 to 54 MHz, which actually used to be TV channel... Two! Or One!

The earliest TV channel plan, in 1937, put Channel One at 44-50 MHz (or Mcs, Megacycles, as it was called then). Channel Two was 50 to 56 MHz. Then the old 5 Meter ham band ran from 56 to 60. Channel Three occupied 66 to 72 MHz.

Over the next few years, there were several changes. In 1940, the FM broadcast band was placed from 42 to 50 MHz, Channel One moved up to 50-56 MHz, and Channel Two moved to 66-72 Mhz (Hams were still on 5 Meters, and were soon booted off the air during WWII).

After the war, in 1946, the FM Broadcast band was moved to 88-108 MHz. Hams were moved to 6 Meters (50-54 MHz), Channel One moved back down to 44-50 Mhz, and Channel Two moved to 54-60 Mhz.

But before Channel One was actually used, the FCC reallocated the spectrum to two-way radio. The channel table was not renumbered, and from then on just began with Channel Two.

There are lots of interesting articles about TV Channel One on the web. Just do a Google search for "TV Channel 1".

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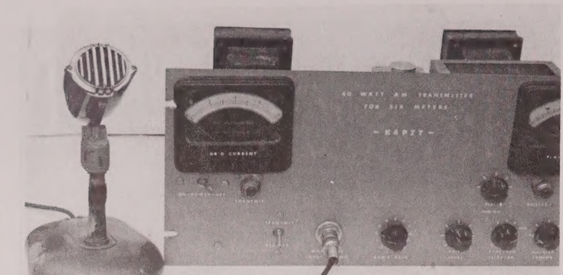

K4PZT's 1960's era TVI generator (and homebrew six meter transmitter)

to devote to amateur radio. And, yes, I'm still on 6 meters, although I really like to chase HF DX on 15 meters. It seemed strange driving up the road on July 3 to tour the new 1511-foot Richland Tower facility. A short distance away, the old WUOT tower now rested on a cutout of the excavated ridge. This 283-foot tower that seemed so tall in the early 60s was now dwarfed by the giant tower just a short distance away. Well I thought, as I drove back down the ridge, 6 meters won't be plagued so much by TVI when these stations all fully upgrade to UHF and go digital.

Finally, Six Meters gets its revenge. ■

VHF TV Spectrum's Future?

While this digital TV move to UHF may seem great for the future of 6 meters, the final story is not written on "what will happen" to the VHF spectrum used so long for analog NTSC television. Because of all the things happening in this regard, a future article might be appropriate. So stay "tuned."

Canadian coordination group recommends channels for Internet-linked simplex stations

Ian Soutar VE7DJI

*The following is a portion of a committee proposal concerning coordination of simplex channels for Internet linking use, made to the BCARCC by Ed Frazer VE7EF, Richard Fryer VA7AA, Ian Soutar VE7DJI, George Merchant VE7CHU. Ian Soutar VE7DJI told the **Repeater Journal** that the proposal has been accepted by BCARCC, and is being presented to RAC for Canada-wide adoption, and they are recommending it to coordination groups in the US as well.*

The Canadian band plan for two meter simplex is similar to the SERA band plan. The Canadian plan calls for packet use on some channels above 147 Mhz, and does not include SERA's for repeater inputs on some otherwise simplex channels. This proposal also called for packet stations to move off the 147 MHz area channels, down to 144-145 MHz channels - KN4AQ

Coordination Councils in North America have historically not coordinated simplex stations. In the last three years, new internet-linked stations (IRLP, Echolink and others) have been appearing in the VHF and UHF amateur radio bands - some on regular repeater duplex channels, and others on simplex channels. The simplex internet-linked stations are appearing without coordination, and BCARCC (the British Columbia Amateur Radio Coordination Council) believes it is important to establish guidelines for frequency use.

CURRENT RAC BANDPLANS

The current RAC (Radio Amateurs of Canada - the Canadian equivalent of the ARRL) band-plans have no specific allocation for Internet-linked repeaters, and thus, such stations have been popping up on random VHF Simplex voice channels, causing complaints from other Simplex users, and particularly from Emergency Program (EP) groups in south-west B.C. Such EP groups, during their weekly emergency nets, are using most, if not all, of the available VHF Simplex voice channels, and are upset when an IRLP station competes with their net. VECTOR's Emergency Frequency List (www.qsl.net/ve7vct/tox.htm), prepared in April 2000 by Tom Cox VE7VCT, reveals this extensive use of the 2 M Simplex bands. To lessen this conflict, the Council is proposing that EP groups reduce the number of Simplex channels used for their emergency nets, and that Internet-linked stations be restricted to certain portions of the band.

INTERNET-LINKED SIMPLEX

We propose that:

(A) Internet-linked simplex stations be confined to the 147 simplex bands, as Internet-PRIMARY;

(B) Permanent stations, requiring coordination, start at the top of the band and work down, ie 147.585, 147.570 MHz, etc;

(C) Spectrum for Experimental stations be allocated as the first two channels in each of the present 147 MHz blocks ie 147.420, 147.435, 147.450 and 147.465 MHz. These channels are to be Shared-Non Protected (SNP), not requiring coordination, but low-power and CTCSS mandatory;

PROMOTION OF OTHER BANDS

It would be in the ham community's interest to also promote the establishment of Internet-linked facilities in the 220 and 440 MHz bands. These bands are under-utilized, the channels are quiet and in relative plentiful supply, and the RF equipment for these bands is now similarly priced to 2M. ■

THE SERA OFFICIAL REPEATER INDEX

REPEATER LISTINGS FOR: GEORGIA ■ KENTUCKY ■ MISSISSIPPI ■ NORTH CAROLINA ■ SOUTH CAROLINA ■ TENNESSEE ■ VIRGINIA ■ WEST VIRGINIA

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SERA will not be responsible for incorrect or omitted listings. The responsibility of correct listings is that of the actual repeater owner or sponsor. SERA makes every effort to keep the index as accurate as possible with information provided. The SERA ***Repeater Journal*** repeater lists contain certain repeaters which are NOT or have not been coordinated by SERA, or are not operating according to recognized frequency utilization plans. SERA does not necessarily condone or recognize such repeaters as being legal or illegal. They are listed in our indexes primarily to keep our readers informed of all repeaters known in the areas served by The SERA.

Some repeater owners or sponsors allow voice as well as other functions on their machine. Operators should check with owners for additional information about what is allowed, and what features are available. Digital Repeaters with normal input/output (pairs) are listed in the regular FM repeater index. Digital systems operating simplex are not coordinated by SERA and are not on our repeater lists. The *codes* column contains the tone or access code for those repeaters which the owner or trustee has given us written permission and asked that we publish them . Access tones are listed for the reader's convenience both in the By-State, and the By-Frequency listings.

Entries with "#" in front of city indicates repeaters added to this index that have not been coordinated through the local SERA state coordinator. Owners may work with their coordinator to get this indicator removed. Repeaters that have been coordinated but may not yet be on the air yet are listed with "PROP" in the codes column. Owners should notify SERA when on the air.

Repeater owners are reminded to contact their local Frequency Coordinator for assistance in coordination, changes in their listings, or any other requirements. All SERA services are FREE. It is very important that the annual SERA repeater datasheet, sent to all known repeater operators, be accurately updated each year and returned to SERA.

SERA RECOMMENDED FM VOICE SIMPLEX

10 Meters:	29.600#						
6 Meters:	52.490	52.525#					
2 Meters:	146.400*	146.415*	146.430*	146.445*	146.460*	146.475*	146.490*
	146.505*	146.520#	146.535	146.550	146.565	146.580	146.595
	147.405*	147.420*	147.435*	147.450*	147.465*	147.480*	147.495*
	147.510	147.525	147.540	147.555	147.570	147.585	
222 MHz	223.400	223.420	223.440	223.460	223.480	223.500#	223.520
	223.540	223.560	223.580	223.600	223.620	223.640	
440 MHz	445.825	445.875	445.900	445.925	445.950	445.975	446.000#
	446.025	446.050	446.075	446.100	446.125	445.150 (Not all listed)	

* Permitted for Voice Simplex use unless operation would cause interference to repeater inputs. Be aware that SERA coordinates some of these frequencies as repeater inputs in some areas.
# - Designated National Simplex Frequencies.

SERA RECOMMENDED DIGITAL SIMPLEX CHANNELS

2 Meters:	144.390#	144.910	144.930	144.950	144.970	144.990	145.010
	145.030	145.050	145.070	145.090	145.510	145.530	145.550
	145.570	145.590	145.610	145.630	145.650	145.670	145.690
	145.710	145.730	145.750	145.770			
222 MHz.	223.660	223.680	223.700	223.720	223.740	223.760	223.780
440 MHz	440.9125	440.9250	440.9375	440.9500	440.9675	440.9750	440.9875
	441.0000	441.0125	441.0375	441.0500	441.0625	441.0750	441.0875
	441.1000	441.1125	441.1375	441.1500	441.1625	441.1750	

Hi Speed Digital Chan. - 222.350 to 222.450 (222.400 Center) - (100 KHz wide)
Hi Speed Digital Chan. - 223.800 to 223.900 (223.850 Center) - (100 KHz wide)

NOTE: Digital operators are reminded to check with their local Digital organizations as to which channels are available for various digital usage in their particular area. Some channels are for exclusive use of LAN or BBS, etc. usage. #144.39 Generally Accepted APRS channel

SERA JOURNAL REPEATER LISTINGS BY STATE - BY CITY

Listings Correct as of July 14, 2003

PLEASE NOTE: CTCSS Tone Frequencies are listed for repeaters only if the repeater sponsors request they be listed. Tone access listing does not indicate a closed repeater.

GEORGIA

10 METERS

CONYERS	AI8H	29.680	-		☺
DALTON	N4BZJ	29.680	-		☺
#MACON	KF4XH	29.620	-	UNCOR	
MONROE	KQ4XL	29.620	-		
VALDOSTA	KB0Y	29.680	-	T141.3	
WARNER ROBINS	WR4MG	29.660	-		

6 METERS

ATL/MARIETTA	KD4DKW	53.090	-	T151.4	
ATLANTA	KA5WZY	53.150	-		☺
AUGUSTA	W4WTA	53.030	-		☺
BISKEY MT.	KC4JNN	53.050	-	T100.0	☺
BOLINGBROKE	KR4OL	53.430	-		
CARTERSVILLE	WB4AEG	53.070	-	T123.0	☺
COCHRAN	W3LAP	53.010	-	PROP	☺
CONYERS	WB4JEH	53.550	-	T151.4	☺
#CONYERS	WB4JEH	51.550	+	UNCOR	☺
CRAWFORD	KD4FVI	53.330	-	T88.5	
#CUMMING	WA4YNZ	51.700	-	UNCOR	
DALTON	N4BZJ	53.130	-		☺
DECATUR	KA4UFM	53.390	-	T	
HIAWASSEE	KC4CBQ	53.270	-	186.2	
IVEY/MACON	K4YC	53.730	-	T88.5	☺
KINGSLAND	KC5BMJ	51.940	-	T82.5	☺
LAKE PARK	KB0Y	53.890	-	T141.3	☺
LAWRENCEVILLE	W4GR	53.110	-	82.5	☺
LULA	WB4HJG	53.890	-	T82.5	☺
#MACON	KF4XH	53.390	-	UNCOR	
MARIETTA	N1KDO	53.210	-	T79.7	☺
MARIETTA	KF4BMG	53.250	-	T79.7	
#PINE LOG MT	WD4OVN	53.450	-	UNCOR	☺
#PINE LOG MT.	K4PLM	53.290	-	UNCOR	
#ROSWELL	WA4YNZ	53.010	-	UNCOR	
WARM SPRINGS	KD4BDB	53.230	-	PROP	
WARNER ROBINS	WR4MG	53.790	-		
WATKINSVILLE	KD4AOZ	53.570	-	T123.0	☺

2 METERS

ADAIRSVILLE	K4NGA	146.685	-		☺
ALBANY	W4MM	146.700	-		☺
ALBANY	W4MM	146.730	-		☺
ALBANY	W4MM	146.820	-		☺
ALLENHURST	KF4ZUR	147.270	+	162.2	
AMERICUS	W4VIR	147.270	+		
ASHBURN/TIFTON	W4PVW	147.285	+	T141.3	☺
ATHENS	KD4QHB	146.745	-		☺
ATHENS	KD4AOZ	146.955	-	T123.0	☺
ATHENS/CRAWFRD	K4TQU	147.375	+	127.3	☺
ATL/UNION CITY	W4ZT	146.625	-	100.0	☺
ATLANTA	W4IBM	145.290	-	T88.5	☺
ATLANTA	W4DOC	145.350	-	T146.2	☺
ATLANTA	K4LCI	145.430	-		
#ATLANTA	WB4QGR	146.640	-	UNCOR	
ATLANTA	W4DOC	146.820	-	T146.2	☺
ATLANTA	K4CLJ	146.970	-	T	☺
ATLANTA	WA4NNO	147.000	-		
ATLANTA	WB6RTH	147.105	+	107.2	☺
ATLANTA	KA5WZY	147.285	+		☺
ATLANTA/AIRPORT	W4REI	147.030	+		
ATLANTA/BELL	W4PME	145.410	-	100.0	☺
ATLANTA/MARIETTA.	N4NFP	146.655	-	T151.4	
ATLANTA/MARIETTA.	N4NEQ	147.345	+	151.4	
ATLANTA/SWEAT MT	KD4NC	146.730	-		
AUGUSTA	KK4HL	145.110	-		
AUGUSTA	W4DV	145.290	-	T100.0	☺
AUGUSTA	AA4UA	145.370	-		
AUGUSTA	K4KNS	145.410	-		☺
AUGUSTA	W4DV	145.490	-		☺
AUGUSTA	KT4N	146.940	-		
AUGUSTA	K4KNS	146.985	-	100.0	☺
AUGUSTA	N4BMA	147.180	+		
#AUSTELL	K4JPD	147.195	+	UNCOR	
BACONTON	K4TWG	145.150	-	PROP	
BAINBRIDGE	KE4RWR	147.090	+	PROP	
BALDWIN	WD4NHW	147.180	+		☺
BARNESVILLE	W8JI	147.225	+		☺
#BLACK ROCK MT	KE4SNT	147.390	+	UNCOR	
BLAIRSVILLE	KE4RQT	146.955	-	T100.0	☺
BOGART	W4EEE	147.000	+	T	☺
BONAIRE	KD4HMH	145.470	-	T	
BONAIRE	K4EDN	147.015	+	T82.5	☺
BOSTON	W4UCJ	147.195	+		☺
BRUNSWICK	K4TVE	146.730	-		
CALHOUN	K4WOC	146.745	-	T100.0	☺
CARROLLTON	W4FWD	146.640	-	T131.8	☺
CEDARTOWN	W4CMA	147.120	+		☺
CHATSWORTH	N4YYD	145.250	-	T71.9	
CLARKESVILLE	K4HCA	147.120	+		☺
CLAXTON	W4CLA	147.075	+		
CLEVELAND	WB4HIG	146.910	-		☺
COCHRAN	N4MXC	145.110	-	T107.2	
COCHRAN	W3LAP	147.330	+	T77.0	☺
COLBERT	N4ALE	147.300	+		☺
COLUMBUS	W4FIZ	145.310	-	T123.0	☺
COLUMBUS	W4CVY	146.610	-	T	☺
COLUMBUS	W4CVY	146.880	-		
#COMMERCE	KF4ADI	147.225	+	UNCOR	
CONYERS	WB4JEH	145.230	-	T151.4	☺
CONYERS	WB4JEH	146.610	-	T151.4	☺
CONYERS	KF4GHF	147.210	+	T162.2	☺
CORDELE	WR4SG	145.230	-	T141.3	☺
CORDELE	KA4WUJ	145.490	-	T103.5	☺
COVINGTON	WA4ASI	146.925	-		
COVINGTON	KF4GHF	147.270	+	T162.2	☺
CUMMING	WB4GQX	147.150	+		☺
DAHLONEGA	N4KHQ	146.835	+	T100.0	☺
DALLAS	W4RPO	146.850	-		
DALLAS	WD4LUQ	146.895	+	T77.0	☺
DALTON	W4DRC	145.230	-		☺
DALTON	N4BZJ	147.135	+	T118.8	☺
DARIEN	WA4EPK	146.685	-		
DECATUR	W4BOC	145.450	-		☺
DOERUN	KG4ABK	147.225	+	PROP	
DOUGLAS	KE4ZRT	147.045	+	141.3	☺
DOUGLAS	KE4ZRT	147.165	+	T141.3	☺
DOUGLAS	AD4EQ	147.315	+	T141.3	☺
DOUGLASVILLE	KR4HV	145.110	-	T88.5	☺
DOUGLASVILLE	W4SCR	147.360	+	T88.5	☺
DUBLIN	WA4HZX	147.360	+		☺
EASTMAN	KC4RRO	145.210	-		
EASTMAN	KF4ODQ	145.330	-	T77.0	
EATONTON	KC4YHM	147.090	+	T179.9	☺
ELBERTON	N4UJT	146.625	-		
ELLIJAY/TALONA M	KC4ZGN	146.985	-	T77.0	
EMERSON	AE4JO	147.240	+	T103.5	☺
FAYETTEVILLE	WA4EPK	145.210	-	131.8	
FAYETTEVILLE	K4KZY	146.685	-		
FOLKSTON	KD4GEY	146.790	-		
FORSYTH	W4STJ	147.315	+	88.5	☺
GA TECH	W4AQL	145.150	-	167.9	☺
GAINESVILLE	W4CBA	145.190	-	PROP	☺
GAINESVILLE	W4ABP	146.670	-	T131.8	☺
GRIFFIN/CENAR	K4HYB	145.390	-	T88.5	☺
GRIFFIN/CENAR	K4HYB	146.910	-		☺
HARTWELL	N4VNI	146.895	-	T100.0	☺
HAWKINSVILLE	WR4MG	146.895	-	T107.2	
HINESVILLE	KG4OGC	147.015	+		☺
IRWINTON	WB4NFG	147.240	+	T77.0	
IVEY	K4YC	145.250	-	T	☺
IVEY/MACON	K4YC	145.150	-	77.0	☺
JASPER	KB4IZF	145.370	-	T100.0	☺
JASPER	K4UFO	146.700	-		☺
JASPER	KC4AQS	146.805	+	T100.0	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . . continue

GEORGIA REPEATERS CONTINUE

JESUP	WA4EQL	145.190	-		☺
JESUP	WA9RNZ	145.430	-	T118.8	☺
JESUP	N4ZON	146.865	-	T123.0	☺
JESUP	N4PJR	146.925	-	T141.3	☺
JESUP/SCREVEN	N4PJR	147.345	+		
JONESBORO	WA4DIW	145.170	-		☺
JONESBORO	WA4OGE	145.330	-		
KIBBEE	K4HVK	146.820	-	T	☺
KINGSLAND	KC4WWU	147.285	+	T118.8	☺
LAFAYETTE	KB4VAK	147.375	+	T77.0	
LAGRANGE	KD4BWK	146.700	-	T141.3	
LAGRANGE	WB4BXO	147.330	+		
LAKE PARK	WR4SG	147.135	+	T141.3	☺
LAVONIA	K4NVG	146.715	-	T100.0	☺
LAWRENCEVILLE	W4GR	147.075	+	82.5	☺
#LINCOLNTON	KT4N	147.120	+	UNCOR	
LOOKOUT MT	W4GTA	145.350	-	T100.0	☺
LOOKOUT MT.	W4RRG	146.760	-	T67.0	☺
MACON	W4BKM	145.370	-	T88.5	☺
MACON	AA4RI	145.430	-		☺
MACON	WR4DH	146.730	-	T100.0	☺
MACON	K4PDQ	146.805	-	T77.0	☺
MACON	N3SM	146.895	-	T123.0	
MACON	WA4DDI	147.060	+	T	☺
#MACON	KF4XH	147.165	+	UNCOR	
MADISON	WB4DKY	146.865	-	T179.9	☺
MADRAS	N4OME	147.165	+	T131.8	☺
MARIETTA	W4LMA	145.490	-	88.5	☺
MARIETTA	N4NEQ	146.775	-	T151.4	
MARIETTA/ATLANTA	W4BTI	146.880	-	T100.0	☺
MILLEDGEVILLE	WB4DOJ	146.700	-	T67.0	
MILLEDGEVILLE	KE4UWJ	147.135	+	T123.0	☺
MORGANTON	N4NEQ	147.165	+	T151.4	
MOULTRIE	WD4KOW	146.790	-		☺
NASHVILLE	KB4JF	145.310	-	T141.3	
NEWNAN	K4SEX	145.130	-	156.7	
NEWNAN	K4SEX	146.790	-		
OCILLA	KD4MFS	145.350	-		
PEMBROKE	KF4DG	147.105	+		
PEMBROKE	W4CJB	147.390	+		
PERRY	WR4MG	145.290	-	T107.2	
PERRY	WR4MG	146.955	-	107.2	
PINE MT/HAMILTON	WB4ULJ	145.190	-		
QUITMAN	WA4NKL	146.880	-		☺
RICEBORO	KG4OGC	145.470	-		☺
RINGGOLD	W4ABZ	146.715	-	T67.0	
ROME	WB4YSV	147.300	+		
ROME/MT. ALTO	W4VO	146.940	-	88.5	☺
ROSWELL	N4CLA	147.060	+		
SANDERSVILLE	KT4X	145.270	-	T77.0	☺
SAVANNAH	K4NLX	146.700	-		
SAVANNAH	K4SDJ	146.850	-		☺
SAVANNAH	W4HBB	146.880	-		
SAVANNAH	W4HBB	146.970	-		
SAVANNAH	WA4IDS	147.150	+		
SAVANNAH	K4NLX	147.210	+		
SAVANNAH	K4NLX	147.330	+		
SNELLVILLE	KR4NQ	147.255	+	T107.2	☺
SPRINGFIELD	AF4VH	146.745	-	PROP	
ST SIMONS ISLAND	N4XGI	145.330	-	T131.8	☺
STOCKBRIDGE	WA4JDR	145.310	-		☺
STONE MT	W4BOC	146.760	-	T107.2	☺
SUMMERVILLE	W4RLP	147.225	+	100.0	☺
SWAINSBORO	K4VYX	146.790	-		
SWEAT MT/MARIETT	N4CLA	145.470	-		
THOMASTON	W4OHH	147.390	+	131.8	☺
THOMASVILLE	W4UCJ	147.060	+		☺
THOMSON	KC4GSS	146.835	-		☺
TOCCOA	N4MTN	147.330	+	PROP	☺
UNADILLA	WR4MG	146.760	-	T107.2	
VALDOSTA	WR4SG	145.130	-	T141.3	☺
VALDOSTA	KF4BJM	146.760	-	141.3	
VIDALIA	K4HAO	146.625	-		☺
WALESKA/PNLG	KE4AIS	147.015	-	T100.0	☺
WALESKA/PNLG MT	KE4AIS	145.270	-	T100.0	☺
WARM SPRINGS	KN4FE	146.985	-		
WARNER ROBINS	WA4ORT	146.850	-		
WARNER ROBINS	WB4BDP	147.180	+	107.2	☺
WARNER ROBINS	WR4MG	147.300	+	107.2	
WATKINSVILLE	KD4AOZ	147.045	+	T123.0	☺
WAYCROSS	AE4PO	146.640	-	T141.3	
WAYCROSS	AE4PO	147.255	+	T141.3	☺
WAYNESBORO	K4BR	145.230	-		
WRENS	KB4NA	146.775	-		
WRIGHTSVILLE	WA4RVB	146.940	-		☺
YOUNG HARRIS	K2YRW	147.090	+		☺

220 MHZ

ACWORTH/ATL	N4MTA	224.320	-	T123.0	
ACWORTH/ATL	N4MTA	224.500	-	T123.0	☺
ALPHARETTA	NX9O	224.580	-	100.0	
ALPHARETTA	KC4JNN	224.860	-	T100.0	☺
ATLANTA	W4DOC	224.340	-		☺
ATLANTA	KK4C	224.820	-	T77.0	
#ATLANTA-NE	KC4OVY	224.200	-	UNCOR	☺
ATLANTA/BELL	W4PME	224.620	-	100.0	☺
ATLANTA/MARIETTA	N4NFP	224.120	-	T151.4	
ATLANTA/MARIETTA	N4NEQ	224.440	-	T151.4	
ATLANTA/MARIETTA	K4RFL	224.960	-	T100.0	☺
AUGUSTA	WB4KXO	224.940	-		☺
BISKEY MTN	KC4JNN	224.160	-	T100.0	☺
CEDARTOWN	KC4KLW	224.780	-	T179.9	
CLAYTON	W4UWH	224.720	-	PROP	
CONLEY	N4MNA	224.280	-		☺
#CONYERS	WB4JEH	224.020	-	UNCOR	☺
CUMMING	K4JSR	224.980	-		
DAHLONEGA	N4RBT	224.380	-	T100.0	☺
DALLAS	N4YDX	224.180	-		
DALLAS	N4YEA	224.540	-		☺
DALLAS	W4TIY	224:700	-		☺
DALTON	N4BZJ	224.360	-	T	☺
DALTON	N4BZJ	224.460	-	T118.8	☺
DALTON	N4BZJ	224.680	-		☺
DALTON	N4KVC	224.740	-	T	☺
#DECATUR	W4BOC	224.760	-	UNCOR	☺
EATONTON	K4SWS	224.100	-	PROP	
FT MT/CHATSWTH	N4YYD	224.240	-	T71.9	
GAINESVILLE	W4TL	224.840	-	T203.5	☺
HAWKINSVILLE	WR4MG	224.820	-	PROP	
JASPER	KC4AQS	224.400	-	T100.0	☺
JASPER	W4UWH	224.600	-	100.0	
JERSEY	WA4SSJ	224.800	-	T103.5	☺
LOOKOUT MT	W4RRG	224.560	-	T	☺
LOOKOUT MT.	W4RRG	224.640	-		☺
MARIETTA	KE4QFG	224.260	-	T110.9	☺
MARIETTA	W4LMA	224.900	-		☺
PINE LOG MTN	KE4AIS	224.520	-		☺
RAY CITY	KB0Y	224.220	-	PROP	☺
SNELLVILLE	W4CSX	224.920	-	T100.0	
VALDOSTA	KB0Y	224.460	-	T141.3	☺
VILLA RICA	KB4TIW	224.300	-	T131.8	
WALESKA	KD4ALC	224.140	-		
WALESKA/PNLG	KE4AIS	224.940	-		☺
WARNER ROBINS	WR4MG	224.840	-		
WATKINSVILLE	KD4AOZ	224.420	-	T123.0	☺
YORKVILLE	WD4LUQ	224.880	-	T77.0	☺
YOUNG HARRIS	NP2Y	224.660	-	PROP	

440 MHZ

ACWORTH	KC4YNF	441.800	+	T77.0	☺
ALBANY	W4MM	444.500	+		☺
ALPHARETTA	WB6RTH	442.000	+	107.2	☺
ATHENS	AA4AI	442.950	+	T179.9	☺
ATHENS	WW4GA	443.300	+	T	☺
ATHENS/CRAWFORD	KC4GZX	444.300	+	T127.3	
ATL/MARIETTA	N4NFP	442.800	+	T	
ATL/UNION CITY	W4ZT	442.125	+	PROP	
ATLANTA	W4CML	442.025	+	T127.3	☺
#ATLANTA	WB6RTH	442.225	+	UNCOR	☺
ATLANTA	N4XQM	442.525	+	T110.9	☺
ATLANTA	KE4PVE	442.675	+	T100.0	☺
ATLANTA	WA4YNZ	442.975	+	T	
ATLANTA	W4CML	443.025	+	T127.3	☺
ATLANTA	KA5WZY	443.600	+	T146.7	☺
ATLANTA	W4CML	443.650	+	PROP	☺
ATLANTA	KD4LXT	443.875	+		
ATLANTA	W4DOC	444.450	+	T146.2	☺
ATLANTA	KD4GPI	444.500	+	T110.9	☺
ATLANTA	W4DOC	444.825	+	T146.2	☺
ATLANTA	WA4NNO	444.925	+		
ATLANTA	WA4YNZ	444.975	+	T	
ATLANTA/BELL	W4ZTL	421.250	+		☺
ATLANTA/BELL	W4PME	444.150	+	T100.0	☺
ATLANTA/GLENRI	WR4CW	444.100	+	PROP	
ATLANTA/MARIETTA	K4RFL	442.875	+	T100.0	☺
ATLANTA/MARIETTA	N4NFP	443.800	+	T151.4	
ATLANTA/MARIETTA	N4NEQ	444.050	+	T151.4	
ATLANTA/MARIETTA	N4NEQ	444.775	+	151.4	
AUGUSTA	KD4BOO	444.900	+		☺
BALDWIN	WD4NHW	442.350	+		☺
BARNESVILLE	N4GWO	443.675	+		
BISKEY MTN	KC4JNN	443.250	+	T100.0	☺
BLAIRSVILLE	KF4SKT	442.200	+		
BLUERIDGE	KD4GRU	442.125	+	146.2	
BOGART	W4EEE	443.475	+	T	☺
BONAIRE	K4EDN	444.625	+	T82.5	☺
BRUNSWICK	KD4CPO	443.425	+		
BRUNSWICK	K4TVE	444.975	+		
BYRON	KF4XH	443.150	+		
BYRON	WB4SBT	444.700	+	T103.5	☺
CALHOUN	K4WOC	443.675	+	PROP	
CANTON	WA4EOC	443.075	+	PROP	
CARROLLTON	W4FWD	444.075	+	T131.8	☺
CARTERSVILLE	KE4AIS	443.175	+	T100.0	☺
CEDARTOWN	KD4NTF	443.575	+	T107.2	☺
CHATSWORTH	W4DRC	443.000	+		☺
CLAYTON	W1CP	442.825	+	T162.2	☺
CLERMONT	W4TL	444.950	+	T131.8	☺
COBB COUNTY	WC4RAV	443.450	+	T103.7	
COCHRAN	W3LAP	442.875	+	T77.0	☺
COCHRAN	N4MXC	444.775	+	PROP	
COCHRAN	W3LAP	444.975	+	77.0	☺
COLLEGE PARK	KG4PTO	442.350	+	PROP	
COLUMBUS	WB4ULK	441.975	+	PROP	
COMMERCE	KF4ADI	441.975	+	PROP	
CONCORD	WB4GWA	443.400	+	118.8	
CONYERS	WB4JEH	442.550	+	T151.4	☺
CONYERS	KB2DZA	443.725	+	T77.0	
CONYERS	WB4JEH	444.550	+	T151.4	☺
CONYERS	KC4ELV	444.750	+	T162.2	☺
CORNELIA	K4JLG	444.275	+	T100.0	☺
COVINGTON	K4GO	443.750	+	T146.2	
COVINGTON	KE4PVE	444.175	+	T100.0	
COVINGTON	WA4ASI	444.800	+	T88.5	
CULLODEN	KE4BB	444.275	+	T123.0	
CUMMING	WB4GQX	441.900	+	T141.3	☺
CUMMING	WA4BPY	442.575	+	T79.9	☺
CUMMING	W4CBA	444.625	+	T123.0	☺
#CUMMING	WA4YNZ	444.975	+	UNCOR	
DACULA	KK4IN	443.550	+		
DAHLONEGA	N4KHQ	443.100	+	100	☺
DAHLONEGA	N4KHQ	444.900	+		☺
DALLAS	W4CSX	441.925	+	T162.2	
DALLAS	W4TIY	443.700	+		☺
DALLAS	WD4LUQ	444.700	+	T77.0	☺
DALTON	N4BZJ	442.175	+	T118.8	☺
DALTON	N4BZJ	444.500	+	T118.8	☺
DALTON	N4BZJ	444.850	+		☺
DANIELSVILLE	KE4FHN	442.650	+	T	
DECATUR	N3APR	442.200	+		
DECATUR	KA4UFM	443.950	+	T110.9	
DECATUR	W4BOC	444.250	+		☺
DOUGLAS	KE4ZRT	443.000	+	T141.3	☺
DOUGLASVILLE	W4SCR	444.575	+	T88.5	☺
DUBLIN	KD4FOC	442.600	+	T77.0	
DUBLIN	KD4IEZ	443.025	+	T156.7	
EATONTON	K4SWS	442.425	+	PROP	
EATONTON	KC4YHM	442.925	+		☺
ELLIJAY	KC4ZGN	442.700	+	T77.0	☺
ETOWAH VALLEY	AE4JO	443.425	+	T103.5	☺
FAYETTEVILLE	W4PSZ	444.600	+	T77.0	
FLOWERY BRANCH	K4VJM	442.775	+	PROP	
FLOWERY BRANCH	K4RHJ	443.900	+	T100.0	☺
FOLKSTON	KD4GEY	444.475	+		
FT. MT/CHATSWTH	N4YYD	443.350	+	T71.9	
GAINESVILLE	W4ABP	442.625	+	T131.8	☺
#GAINESVILLE	WA4DB	444.200	+	UNCOR	
GAINESVILLE	W4CBA	444.350	+	PROP	☺
GRAY	K4MDS	443.625	+		
GREENSBORO	N4YXL	444.850	+	PROP	
GRIFFIN	KF4QLF	441.850	+		☺
GRIFFIN	KE4WLP	443.550	+		
HAMILTON	WB4ULJ	444.400	+		
HAPEVILLE	KC4ENL	442.825	+	T167.9	
HELEN	K4PE	444.425	+	T127.3	
HIAWASSEE	KC4CBQ	444.675	+	186.2	
HIGH PT/LOOKT MT	KB4VAK	443.450	+	T77.0	
HINESVILLE	KG4OGC	444.850	+	PROP	☺
HOGANSVILLE	KC4YNY	444.300	+	PROP	
IRWINTON	WB4NFG	444.925	+	T77.0	
IVEY	K4YC	443.200	+	T88.5	☺
IVEY	K4YC	444.650	+	T	☺
JASPER	N3DAB	442.750	+	T141.3	☺
JASPER	KC4AQS	443.375	+	T100.0	☺
JASPER	KB4MDE	443.425	+		
JASPER	KF4OYP	443.625	+	T100.0	
JASPER	KB4IZF	444.375	+	T103.5	☺
JERSEY	WA4SSJ	443.575	+	PROP	☺
JESUP	N4PJR	444.925	+	T141.3	☺
JONESBORO	WA4DIW	443.225	+		
KINGSLAND	KC5BMJ	444.625	+	T118.8	☺
KINGSTON	AF4PX	444.125	+	PROP	
KNOXVILLE	N4PQR	443.525	+	PROP	
LAKEMONT	N4ZRF	444.750	+	T	
LAVONIA	K4NVG	442.475	+	T203.5	☺
LAWRENCEVILLE	WB4HJG	442.850	+	T82.5	☺
LAWRENCEVILLE	KF4RLZ	442.900	+	PROP	
LAWRENCEVILLE	WB4QDX	444.000	+	T127.3	☺
LAWRENCEVILLE	W4CML	444.025	+	T127.3	☺
LOOKOUT MT	W4RRG	442.650	+	T100.0	☺
LOOKOUT MT.	W4RRG	442.475	+	T67.0	☺
LULA	WB4HJG	444.400	+	T71.9	☺
MABLETON	W4JLG	442.325	+	T	☺
MACON	AF4UL	442.000	+	PROP	
MACON	K4DDH	442.275	+	T100.0	☺
MACON	W4MAZ	442.700	+	PROP	
#MACON	WX4EMA	443.075	+	UNCOR	
MADRAS	K4HAC	442.250	+	T141.3	☺
MARIETTA	N1KDO	442.050	+	T107.2	☺
MARIETTA	KE4QFG	442.375	+	T	
MARIETTA	WA4OKJ	442.600	+	T100.0	
MARIETTA	N4MTA	443.500	+		☺
MARIETTA	KF4BMG	444.325	+	T79.7	
MARIETTA/ATL	KE4QFG	442.725	+	T	
MARLOW	W1MED	442.475	+	PROP	
MCDONOUGH	KE4UAS	444.875	+	T82.5	☺
MONROE	KQ4XL	443.925	+	T123.0	
MOULTRIE	W1BPP	444.625	+	T123.0	☺
NEWNAN	K4NRC	441.875	+	T156.7	
NEWNAN	KE4PVE	444.350	+	PROP	
NORCROSS	K4HUM	442.100	+	T100.0	☺
PEACHTREE CITY	AB4KN	442.500	+	T77.0	
PEMBROKE	AF4MI	441.800	+	T123.0	
PENDERGRASS	KE4PVE	444.125	+	PROP	
PERRY	WR4MG	444.950	+		

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

GEORGIA REPEATERS CONTINUE

PINE LOG MT	KD4APP	443.200	+	T103.5	
QUITMAN	WA4NKL	444.600	+	T127.3	☺
REX	KB4NPO	443.975	+	PROP	
RINGGOLD	KW4KW	442.300	+	PROP	
RINGGOLD	W4BAB	443.925	+		
ROCKMART	KC4KLW	443.275	+	T179.9	
ROME	KA4MLK	441.825	+	T100.0	
ROME	KC4KLW	443.525	+	T179.9	
ROSWELL	W8BLA	442.075	+	T	
#ROSWELL	WA4YNZ	442.975	+	UNCOR	
ROSWELL/BELL	N4SE	442.150	+	T100.0	☺
ROSWELL/BELL	W4PME	443.150	+	100.0	☺
SANDY SPRINGS	KE4OKD	441.950	+	T156.7	
SAVANNAH	K4NLX	421.250	+		
SAVANNAH	WA4VHP	427.250	+	T	☺
SAVANNAH	K4NLX	442.700	+		
#SAVANNAH	WD4AFY	444.000	+	UNCOR	
SMYRNA	N4IBW	444.650	+		
SNELLVILLE	W4CML	442.450	+	T	
SNELLVILLE	NE1H	443.050	+	T	
SNELLVILLE	W4GR	444.525	+	82.5	☺
ST SIMONS ISLAND	N4XGI	442.950	+	T131.8	☺
STATHAM	WW4T	442.300	+	T	☺
STOCKBRIDGE	KG4PUW	443.125	+	PROP	
STOCKBRIDGE	N4JMD	443.325	+	T	
STONE MTN	KD4HPD	443.825	+	T123.0	
SUGAR HILL	N4YF	443.775	+	T82.5	☺
SUGAR VALLEY	K4WOC	441.850	+	PROP	
SUMMERVILLE	KS4QM	444.725	+	T123.0	☺
SWEAT MT/MARIETT	N4CLA	444.475	+		
TIFTON	KE4RJI	444.875	+	T	☺
TYRONE/PTC	KN4YZ	444.675	+	T77.0	
VALDOSTA	WR4SG	444.350	+	T141.3	☺
VALDOSTA	KF4BJM	444.700	+	T141.3	
VIDALIA	KE4PMP	442.500	+	T88.5	☺
#WALESKA	KD4DXR	441.350	+	UNCOR	
#WALESKA	K4PLM	443.850	+	UNCOR	
WARM SPRINGS	N4UER	442.400	+		
WARNER ROBINS	WR4MG	442.900	+		
WATKINSVILLE	KD4AOZ	444.725	+	T123.0	☺
WAYCROSS	AE4PO	444.025	+	T141.3	☺
WOODSTOCK	KE4SJO	444.225	+		

900 MHZ

ATLANTA	KG4LMT	927.500	-	223.0	
LAWRENCEVILLE	N8EKA	927.6875	-	141.3	☺
#SAVANNAH	WA4VHP	923.000	-	UNCOR	☺
VALDOSTA	KB0Y	927.4875	-	PROP	☺

1270 MHZ

ATLANTA/BELL	KB4KIN	1292.000	-		☺
ATLANTA/MARIETTA	N4NEQ	427.250	+		
DALTON ATV	N4BZJ	421.250	+		☺

KENTUCKY

10 METERS

BUCKHORN LAKE	K4XYZ	29.620	-	103.5	☺
INGLE	KA4UHL	29.680	-	PROP	
LOUISVILLE	KK4CZ	29.640	-		☺

6 METERS

ASHLAND	KC4QK	53.010	-	T107.2	☺
BUCKHORN LAKE	K4XYZ	53.730	-	PROP	☺
DORTON	WR4AMS	53.350	-	PROP	
HAZARD	K4TDO	53.850	-		
HIGHLAND HEIGHTS	AD4CC	53.330	-	123.0	
HIGHLAND HEIGHTS	W4YWH	53.750	-	PROP	☺
LAGRANGE	WB4WSB	53.950	-	PROP	
LAWRENCEBURG	N4EQT	53.130	-	T107.2	
LEXINGTON	KE4LGL	53.570	-		
LONDON	KE4ZJT	53.910	-	T100.0	☺
LOUISVILLE	KF4UAQ	53.290	-		
LOUISVILLE	N7BBW	53.430	-	T151.4	☺
LOUISVILLE	WB4LBR	52.025	+		
NANCY	KA4UHL	53.270	-	T100.0	☺
NICHOLASVILLE	N4ALG	53.090	-	103.5	☺
#STANTON	WD4KNE	53.810	-	UNCOR	
WAYNESBURG	KE4RKF	53.390	-	T100.0	☺
WILLIAMSBURG	KB4PTJ	53.070	-	T100.0	

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "Closed" repeater. Generally in most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

2 METERS

ALLEN	K4ICN	147.300	+	T123.0	☺
#ARTEMUS	N4INT	147.390	+	UNCOR	
ASHLAND	K4GEC	146.940	-		☺
ASHLAND	KC4QK	147.240	+	T107.2	☺
ASHLAND	WA8KWH	147.330	+		
BARBOURVILLE	KF4CME	147.135	+	100.0	
BARDSTWN/NELSN	WB4GGH	145.470	-	151.4	☺
BEREA	KF4OFT	146.715	-	100.0	☺
BLACK MOUNTAIN	KB4DFK	147.210	+	T103.5	☺
BOWLING GREEN	WA4GOZ	146.625	-	PROP	
BOWLING GREEN	K4LOL	147.060	+	156.7	☺
BOWLING GREEN	W4WSM	147.165	+		☺
BOWLING GREEN	KA4CFW	147.330	+		☺
BOWLING GREEN-SO	W4WSM	146.655	-		☺
BROOKS	KY4KY	146.700	-	T151.4	☺
BUCKHORN LAKE	K4XYZ	147.375	+	T103.5	☺
CADIZ	KT4SH	147.195	+	103.5	☺
CANE VALLEY	WA4UXJ	146.640	-		☺
#CENTRAL CITY	WF4N	145.390	-	UNCOR	
CORBIN	WD4KWV	146.610	-		☺
COVINGTON	WR8CRA	147.390	+	T123.0	☺
CRESTWOOD	KF4TOL	147.390	+	T151.4	
DANVILLE	WD4DZC	146.655	-		☺
DAVID	KC4KZT	145.310	-	T	☺
DAWSON SPRINGS	KF4CWK	147.090	+	T103.5	
#DIXON	N4IOX	147.255	+	UNCOR	
DORTON	KC4KZT	146.895	+	T141.3	☺
DRAKESBORO	KF4DKJ	146.820	-	T	
ELIZABETHTOWN	W4BEJ	146.980	-		
ELKTON	KA4NNE	146.805	-	100.0	☺
FARMINGTON	W4GZ	147.240	+	T91.5	☺
FLEMINGSBURG	KF4BRO	146.955	-	T107.2	☺
FLORENCE	K4JBV	146.895	-	100.0	
FRANKFORT	N4EQT	147.105	+	T107.2	
FRANKFORT	KC4AI	147.240	+	T100.0	
FRANKLIN	KE4SZK	147.135	+	PROP	
GEORGETOWN	KF4NTQ	146.685	-	107.2	☺
GLASGOW	KY4X	146.940	-	114.8	
GRAYSON	KD4DZE	146.700	-	107.2	☺
GREENVILLE	WA4TTC	146.745	-		
GRETHEL	KJ4VF	147.045	+	T100.0	
HALLS GAP	W8PRH	145.170	-		☺
HARLAN	WA4ZAC	147.105	+		☺
HAZARD	KF4SJO	146.670	-		☺
HAZARD	W8PRH	146.805	-		☺
HENDERSON	W4KVK	145.490	-		
#HENDERSON	K4DPP	146.970	-	UNCOR	
HIGHLAND HEIGHTS	W4YWH	146.790	-	123.0	☺
HIGHLAND HTS.	K4CO	147.255	+	T123.0	☺
#HODGENVILLE	W4LJM	147.315	+	UNCOR	☺
HOPKINSVILLE	KF4FO	146.710	-		
HOPKINSVILLE	KD4ULE	147.030	+	T103.5	☺
HUEYSVILLE	K4NLT	145.470	-	T79.7	☺
HYDEN	KF4TLT	147.240	+	186.2	☺
IRVINE	W4CMR	146.820	-	192.8	☺
IRVINE	AD4RU	147.015	+		
JACKSON	WA4MXO	145.410	-		☺
#JONATHAN CREEK	N4SEI	146.985	-	UNCOR	
LAWRENCEBURG	N4EQT	145.390	-	T107.2	
LEBANON	WD4JZH	147.345	+	T151.4	
LEBANON JCT.	KD4YGK	147.150	+	PROP	☺
LEESBURG	KC4UPE	145.110	-	T192.8	☺
LEXINGTN/GRGTWN	W8PRH	145.210	-		☺
LEXINGTON	AD4YJ	145.250	-	110.9	
LEXINGTON	WB4CWF	145.490	-		☺
LEXINGTON	AC4AO	146.730	-		☺
LEXINGTON	K4KJQ	146.760	-		☺
LEXINGTON	WA4HBM	147.165	+		☺
LEXINGTON	KJ4VF	147.195	+		
LITCHFIELD	KY4SP	147.225	+	179.9	
LONDON	KE4ZJT	147.180	+	T151.4	☺
LONDON	KC4ZFH	147.285	+	T	
LOUISA	N8QCW	147.390	+	127.3	☺
LOUISVILLE	KG4CCW	145.150	-	141.3	
LOUISVILLE	W8PRH	145.230	-		☺
LOUISVILLE	AC2DC	145.290	-	T151.4	
LOUISVILLE	KK4CZ	145.410	-	151.4	☺
LOUISVILLE	W4PF	146.880	-		
LOUISVILLE	W4PJZ	147.030	+	151.4	☺
LOUISVILLE	N4MRM	147.070	+	T151.4	
#LOUISVILLE	KA4KMT	147.120	+	UNCOR	
LOUISVILLE	W4CN	147.180	+	88.5	☺
LOUISVILLE	WB4EJK	147.270	+	151.4	
LOUISVILLE	KQ9Z	147.360	+		
LOUISVILLE AREA	N4UL	145.130	-	T151.4	
LYNN GROVE	KA4BLZ	146.895	-	T210.7	
MADISONVILLE	KC4FRA	146.610	-		☺
#MARION	KA4FGA	147.285	+	UNCOR	
MAYSVILLE	KF4BRO	145.470	-	T107.2	☺
MIDDLESBORO	W4PPM	146.775	-		
MILLARD	KD4RTR	146.745	-	T141.3	
#MONTECELLO	WB9SHH	146.395	+	UNCOR	☺
MONTICELLO	KY4JW	145.150	-		☺
MOREHEAD	KJ4VF	145.130	-	T100.0	
MOREHEAD	K4GFY	146.910	-	T123.0	
#MT. STERLING	WD4KNE	147.330	+	UNCOR	
MURRAY	K4MSU	146.940	-	T91.5	☺
NANCY	KA4UHL	146.790	-	T100.0	
#NEBO	AA4NI	146.730	-	UNCOR	
OWENSBORO	N4WJS	146.685	-	110.9	☺
OWENSBORO	AD4MU	146.865	-		
OWENSBORO	K4HY	147.210	+	110.9	☺
OWINGSVILLE	N4TLP	147.075	+		
PADUCAH	K4CUW	146.655	-	T	☺
PADUCAH	K4CUW	146.760	-		
PADUCAH	W4NJA	147.060	+	103.5	☺
PAINTSVILLE	N4KJU	145.270	-	T	☺
PARIS	KE4OOS	147.045	+	PROP	
PHELPS	KJ4YK	147.090	+		☺
PIKEVILLE	AD4BI	145.150	-	107.2	☺
PIKEVILLE	KM4IV	146.850	-		
PRESTONSBURG	WB4UBY	147.165	+		☺
PRINCETON	W4KBL	145.230	-	103.5	
PRINCETON	W4KBL	146.670	-		
#PROVIDENCE	N4IUI	147.330	+	UNCOR	
RADCLIFF	AI4HB	145.350	-	173.8	
RADCLIFF	W4BEJ	146.925	-		
RICHMOND	KE4YVD	145.370	-	T192.8	☺
RICHMOND	KG4AEU	146.865	-	192.8	
ROCKFIELD	KG4FEJ	145.450	-	136.5	
ROCKPORT	KD4BOH	145.270	-	77.0	☺
SALEM	KC4VXR	147.315	+		
SALVISA	KF4AWA	146.835	-	T192.8	☺
SALYERSVILLE	KB4SQI	145.190	-	T127.3	☺
SANDY HOOK	KF4WMM	147.135	+	T107.2	
SHELBYVILLE	KE4LR	147.000	+		☺
SO. PORTSMOUTH	KC8FKP	145.390	-	136.5	
SOMERSET	KA4UHL	146.880	-	77.0	☺
SPRINGFIELD	WA4SJH	147.300	+		
ST. CHARLES	KE4AIE	147.270	+		☺
STANTON	N4VOS	145.290	-		
STANTON	W8PRH	146.970	-		☺
STINETT	KF4TLT	147.345	+	PROP	
TOMPKINSVILLE	KJ4OG	146.775	-		☺
VANCEBURG	AE4SK	146.775	-		☺
VERSAILLES	KF4INN	145.330	-		
WADDY	KS4TO	146.910	-	T107.2	
WALTON	K4CO	147.375	+	123.0	☺
WEBSTER	K4ULW	146.625	-	T151.4	
WEST LIBERTY	KG4GQC	145.230	-	107.2	
WILLIAMSBURG	KG4M	147.000	+		
WINCHESTER	WB4ASZ	147.120	+		☺

220 MHZ

ASHLAND	KC4QK	223.940	-		☺
BUCKHORN LAKE	K4XYZ	224.460	-	PROP	☺
DORTON	WR4AMS	224.520	-		☺
GARRETT	K4NLT	224.260	-	PROP	☺
HAZARD	WR4AMS	224.820	-		
IRVINE	AD4RU	224.940	-		
LANCASTER	KD4RXF	224.560	-		
LAWRENCEBURG	N4EQT	224.900	-	T107.2	
LEXINGTON	AC4AO	224.420	-		☺
LEXINGTON	KR4BD	224.800	-		☺
LONDON	WR4AMS	224.980	-		
LOUISVILLE	KA4MKT	224.300	-		
LYNCH	K4TDO	224.320	-	PROP	
META	WR4AMS	224.380	-	PROP	
MIDDLESBORO	WM4MD	224.120	-	T82.5	
NANCY	KA4UHL	224.100	-	T100.0	☺
PIKEVILLE	WB4F	224.580	-		
PIKEVILLE	KD4DAR	224.620	-		☺
PRESTONSBURG	WR4AMS	224.720	-	PROP	
SHEPHERDSVILLE	N4FND	224.500	-	T151.4	☺
SOMERSET	N4AI	224.300	-		☺
SOMERSET	N4AI	224.880	-		☺
VERSAILLES	AD4CR	224.220	-		

440 MHZ

ALLEN	N4IWZ	444.775	+	T123.0	☺
#ASHLAND	KC8ERN	444.750	+	UNCOR	
ASHLAND	KC4QK	444.975	+	T107.2	☺
BARDSTOWN	KT4GB	443.000	+		☺
BEATTYVILLE	KC4UPE	444.825	+	T192.8	☺
BEAVERLICK	KC4COV	443.475	+	T131.8	
BOWLING GREEN	W4HTB	426.250	+		☺
BOWLING GREEN	W4WSM	444.100	+		☺
BOWLING GREEN	WB4JM	444.700	+	T136.5	☺
BROOKS	KY4KY	443.700	+	151.4	☺
BRUSHY FORK	KF4WMM	444.600	+	88.5	
BUCKHORN LAKE	K4XYZ	443.400	+	103.5	☺
BURLINGTON	KD4EVB	443.525	+	T107.2	☺
CANE VALLEY	W4LJM	443.950	+	T	☺
CORBIN	KF4IFC	444.275	+	79.7	☺
CORBIN	WB4IVB	444.900	+	T100.0	
COVINGTON	KC4COV	444.175	+	T131.8	
COX'S CREEK	AE4NU	443.450	+	T151.4	☺
DAVID	KC4KZT	443.900	+	T167.9	☺
DAWSON SPRINGS	KU4MJ	444.275	+		
DORTON	KD4RTR	442.150	+	167.9	
DORTON	KJ4VF	443.250	+		
DRY RIDGE	KD4EVB	444.425	+	T118.8	☺
ELIZABETHTOWN	W4BEJ	421.250	+		
ELIZABETHTOWN	W4BEJ	444.800	+		
ELKHORN CITY	KD4RTR	444.300	+	167.9	

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

KENTUCKY REPEATERS CONTINUE

FALMOUTH	KD4EVB	443.825	+	T107.2	☺
FLATWOODS	KZ4G	443.450	+	PROP	
FLORENCE	KC4COV	443.175	+	T131.8	
FORT WRIGHT	KY4DJ	441.850	+	PROP	
FORT WRIGHT	KY4JD	442.525	+	T123.0	☺
FOSTER	KU4ML	443.125	+		
FRANKFORT	K4NGQ	442.175	+	T67.0	
FRANKFORT	WA4CMO	443.325	+		
FRANKLIN	KD4TAH	443.225	+		
GARRETT	KF4JJD	442.400	+	79.7	☺
GEORGETOWN	KF4NTQ	443.625	+		
GILBERTSVILLE	W2HR	442.850	+	T103.5	
GLASGOW	KY4X	444.925	+		
GLASGOW/CVCTY	KF4DC	444.250	+		
GRAEFENBURG	N4HZX	443.550	+		☺
GRETHEL	KJ4VF	444.525	+		
HARLAN	KD4CDX	442.625	+	PROP	
HAWESVILLE	KB4QFL	444.625	+		
HAZARD	K4TDO	443.975	+	103.5	
HENDERSON	KY4K	444.725	+	T203.5	
HIGHLAND HEIGHTS	W4YWH	444.900	+	123.0	☺
HOPKINSVILLE	KE4AIF	444.750	+	T103.5	☺
HORSECAVE	KF4QZN	444.850	+	PROP	
HUDSON	KY4SP	444.900	+	179.9	
INDEPENDENCE	KB8SBN	444.075	+	T110.9	
IRVINE	W4CMR	442.900	+		☺
IRVINE	AD4RU	444.000	+		
LATONIA	AA4XV	442.400	+	T	
LAWRENCEBURG	N4EQT	443.925	+	T107.2	
LEWISPORT	K4DC	444.550	+		☺
#LEXINGTON	KY4ATV	923.250	-	UNCOR	☺
LEXINGTON	KD4ADJ	442.050	+		
LEXINGTON	KE4OOL	443.025	+	T123.0	
LEXINGTON	KB8QLC	444.125	+	88.5	
LEXINGTON	KC4DUU	444.550	+		☺
LEXINGTON	KE4ISR	444.725	+	T	
LEXINGTON	N4DUE	444.950	+		☺
LOUISVILLE	N4ORL	442.000	+		
LOUISVILLE	KB4RYM	442.500	+		
LOUISVILLE	WD4ELX	442.550	+		
LOUISVILLE	KB4YJ	442.725	+	151.4	
LOUISVILLE	WD9EQC	443.500	+		
LOUISVILLE	N4KWT	443.975	+	PROP	
LOUISVILLE	N4UL	444.100	+	173.8	
LOUISVILLE	KG4JNM	444.300	+	156.7	
LOUISVILLE	N4NMC	444.600	+	T151.4	
LOUISVILLE AREA	N4RBL	442.100	+	T	
LOUISVILLE AREA	KD4CLR	442.450	+	T151.4	☺
LOUISVILLE SW	K4ULW	443.350	+		
MADISONVILLE	KC4FIE	442.425	+		☺
MADISONVILLE	AE4LW	442.575	+	T100.0	
MADISONVILLE	KC4FIE	442.775	+		
MADISONVILLE	KC4FIE	444.600	+		☺
MAMMOTH CAVE	KF4QZN	444.475	+	T179.9	
MANCHESTER	KD4GMH	444.500	+	PROP	
MARION	KR4PF	444.200	+	T100.0	
MAYSVILLE	KF4BRO	443.500	+	T123.0	☺
META	WB4UBY	443.500	+		☺
MIDDLESBORO	WM4MD	442.325	+	T67.0	
MIDDLESBORO	KD4PBC	443.150	+	PROP	
MIDDLESBORO	WB4IVB	444.150	+	T100.0	
MILLARD	KD4RTR	443.425	+		
MONTICELLO	WB9SHH	444.750	+		☺
MOREHEAD	K4GFY	442.500	+	T	
MORGANTOWN	KF4QZN	444.425	+	T179.9	
MT STERLING	KD4ADJ	442.600	+		
MURRAY	K4MSU	443.800	+	T110.9	☺
NANCY	KA4UHL	443.600	+	T100.0	☺
NEBO	AA4NI	444.850	+		
NICHOLASVILLE	KC4UPE	444.775	+	T167.9	☺
NICHOLASVILLE	WB4CWF	444.975	+		
OLIVE HILL	KO4LI	444.925	+		
OWENSBORO	N4WJS	443.100	+	T110.9	☺
OWENSBORO	N4WJS	443.650	+	110.9	☺
PADUCAH	KD4DVI	443.000	+	179.9	
PAINTSVILLE	N4KJU	441.525	+	127.3	☺
PHELPS	N4MVY	444.575	+		☺
PIKEVILLE	KD4RTR	444.200	+		
PIKEVILLE	KD4DAR	444.375	+		☺
PIKEVILLE	AD4BI	444.475	+		☺
PRESTONSBURG	K4AVY	443.825	+	127.3	☺
RICHMOND	KE4ISW	444.625	+	192.8	☺
RINEYVILLE	KF4RBD	444.225	+	PROP	
ROBINSON CREEK	KC4VYX	444.675	+		☺
ROCKPORT	KD4BOH	442.675	+	77.0	☺
ROCKPORT	KD4BOH	444.075	+	T77.0	☺
RUSSELLVILLE	KD4TAH	442.350	+	PROP	
SALEM	KC4VXR	444.825	+	T100.0	
SALVISA	KF4AWA	444.675	+	T203.5	☺
SALVISA	KC4UPE	444.875	+	T167.9	☺
SALYERSVILLE	KE4NLL	444.050	+	T127.3	
SHELBYVILLE	KE4YRE	442.375	+		
SHEPHERDSVILLE	KD4YGK	444.400	+	T203.5	☺
SIMPSONVILLE	KO4OT	444.450	+	T100.0	☺
SPRINGFIELD	WA4SJH	444.600	+		
STANTON	N4VOS	442.075	+		
VERSAILLES	KF4INN	443.775	+		
WADDY	KS4TO	443.225	+		
WALTON	K4CO	444.350	+	123.0	☺
WAYNESBURG	AG4TY	442.975	+	PROP	
WEBSTER	KY4SP	441.525	+		
WHITESBURG	KK4WH	443.750	+	PROP	
WILLIAMSBURG	KB4PTJ	444.050	+	100.0	
WITHAMSVILLE	KC4COV	444.400	+	T131.8	

900 MHZ

LEXINGTON	KA4KMG	927.725	-	PROP	

MISSISSIPPI

10 METERS

BAY SAINT LOUIS	KB5MPW	29.640	-	T136.5	

6 METERS

BAY SAINT LOUIS	KB5MPW	53.650	-	T136.5	
ELLISVILLE	N5EKR	53.010	-	T	
JACKSON	W5PFC	53.470	-	PROP	
LAUREL	KC5PIA	53.450	-		☺
NETTLETON	AB5MU	53.050	-	192.8	

2 METERS

ABBEVILLE	WB5VYH	145.470	-	T107.2	
ABERDEEN	WB5USN	147.270	+		☺
ACKERMAN	NO5N	147.120	+		
AMORY	KB5DWX	146.940	-	T192.8	☺
AMORY	KB5DSN	147.090	+		
BAY ST. LOUIS	WB4FUR	146.700	-		
BILOXI	KC5IF	146.730	-		
BILOXI	K5TYP	146.790	-		
BOONEVILLE	K5YD	145.190	-	110.9	☺
BOONEVILLE	KI5WI	147.150	+		
BUDE	K5JMD	146.850	-	T103.5	
BYHALIA	N4DRL	145.350	-		☺
CHATAWA	WB5GOJ	145.310	-		
CLEVELAND	N5RTQ	146.775	-	T107.2	
COLLINS	N5LRQ	146.985	-	T136.5	☺
COLUMBIA	N5YNY	147.195	+	T136.5	☺
COLUMBIA	N5LJC	147.285	+	PROP	
COLUMBUS	KC5ULN	146.625	-		☺
COLUMBUS	KC5ULN	147.000	+		☺
CORINTH	???	146.925	-	T107.2	
CORINTH	K5UFH	147.000	-		
CORINTH	KB5TGA	147.285	+		☺
D'IBERVILLE	KC5IF	145.410	-		
ELLISVILLE	N5EKR	146.955	-	T	
ELLISVILLE	N5DWU	146.865	+	T136.5	☺
ELLISVILLE	N5DWU	146.895	+	T136.5	☺
FLORENCE	KD5AXY	145.110	-	T	☺
FOREST	KC5QHP	147.390	+	T100.0	☺
#FRENCH CAMP	W5BJT	147.225	+	UNCOR	
FULTON	WX5P	145.450	-		☺
GLOSTER	KX5E	145.430	-	T136.5	
GREENVILLE	KG5SF	147.345	+		
GREENWOOD	KA5TQY	146.715	-		
GRENADA	W5LV	146.700	-		☺
GULFPORT	KA5VFU	147.375	+		
HATTIESBURG	W5CJR	145.190	-	T136.5	
HATTIESBURG	K5IJX	145.370	-	136.5	
HATTIESBURG	K5PN	146.775	-	T136.5	
HATTIESBURG	KD5MIS	147.315	+	T136.5	☺
HATTIESBURG	W5CJR	147.360	+		
HERNANDO	K5VV	146.910	-		
INDIANOLA	N5LRL	147.180	+	T107.2	
ISOLA	KC5OB	146.955	-		
IUKA	WB5MFK	146.850	-		
JACKSON	KB5KGE	145.390	-		
JACKSON	W5AXQ	146.760	-		☺
JACKSON	K5QNE	146.880	-	T100.0	☺
JACKSON	KA5SBK	146.940	-	100.0	☺
JACKSON	W5IQ	147.000	+	T	☺
JACKSON	NC5Y	147.075	+	T	
KILN	K5DMC	145.330	-		
KOSCIUSKO	W5LWC	146.850	-		
LAUREL	W5LAR	146.610	-		☺
LAUREL	WV5D	147.030	-	T	
LAUREL	KC5RC	147.255	+		
LOUISVILLE	KC5QGC	147.360	+		
LUCEDALE	WA5JZL	146.910	-		
MADISON	K5XU	146.640	-		☺
MAGEE	K5HYE	146.820	-	100.0	☺
MAGEE	KA5LNY	147.300	+		☺
MCCOMB	K5JMD	146.940	-	T	
MENDENHALL	KB5IKR	145.210	-	T100.0	
MERIDIAN	KC5ZZH	146.655	-		☺
MERIDIAN	W5FQ	146.700	-		☺
MERIDIAN	KI5FW	146.970	-	100.0	☺
MONTICELLO	N5JHK	147.015	+		
MOOREVILLE	WB5NAY	146.640	-		
MORTON	KB5LCL	147.045	+	T141.3	
NATCHEZ	W5KHB	146.685	-		
NATCHEZ	K5OCM	146.910	-	91.5	
NATCHEZ	K5SVC	147.360	+	100.0	☺
#NEW ALBANY	KC5VZI	145.230	-	UNCOR	
NEW ALBANY	W5UBG	146.670	-		
#NEW ALBANY	KC5VZI	146.745	-	UNCOR	☺
NEW HEBRON	N5MRS	147.090	+	T	
OCEAN SPRINGS	W5LDD	147.030	+		☺
PASCAGOULA	KE5SJ	146.880	-		
PASCAGOULA	N5PH	146.970	-	T	
PEARL/RANKIN CO	KF5IZ	147.150	+	T88.5	
PELAHATCIE	W5PPB	147.240	+	T77.0	☺
PHILADELPHIA	N5EPP	147.330	+		
PICAYUNE	KE5LT	145.150	-		☺
PONTOTOC	WB5NAY	147.380	+		
PORT GIBSON	KE5WO	146.625	-		
PURVIS	KB5ZCX	146.670	-		
RAYMOND	W5JWX	145.170	-	T77.0	
RICHTON	N5OCF	147.060	+	T	
SENATOBIA	KB5DMT	146.985	-	T107.2	
SHARON	W5PPB	145.450	-	T77.0	☺
SOUTHAVEN	N5PYQ	145.370	-	T107.2	
STARKVILLE	KD5GVU	146.730	-	210.7	☺
STARKVILLE	KF5C	146.805	-	192.8	
#SUMNER	WB5FXH	147.090	+	UNCOR	
TUPELO	N5VGK	145.490	-		
TUPELO	N5ELS	147.240	+		
UNION	N5SPJ	147.210	+	T100.0	
UTICA	N5ZMZ	145.350	-		
UTICA	KC5TGT	146.730	-	T77.0	
UTICA	N5ZMZ	147.345	+		
VANCLEAVE	W5WA	145.110	-	123.0	☺
#VANCLEAVE	KE5TL	147.000	-	UNCOR	
VICKSBURG	WJ5L	145.290	-		☺
#VICKSBURG	K5IMT	146.805	-	UNCOR	
VICKSBURG	K5ZRO	147.270	+	T100.0	☺
VOSSBURG	KB5UIX	147.135	+	136.5	
WALLS	N5NBG	145.270	-	T162.2	
WATER VALLEY	N5DXM	147.000	-		
WAYNESBORO	W5SAR	147.105	+		☺
WAYNESBORO	N5DWU	147.315	+		☺
WEST POINT	KC5LIO	147.180	+		☺
WIGGINS	KB5DZJ	145.270	-	T136.5	☺
WINONA	N5EYM	146.970	-	110.9	

220 MHZ

BYHALIA	N4DRL	224.500	-		☺
VICKSBURG	WB5OWY	224.780	-		
WARSAW	N4DRL	224.880	-		☺

440 MHZ

ABERDEEN	KD5AHI	444.450	+		☺
AMORY	KB5DSN	444.825	+		
BYHALIA	N4DRL	444.300	+		☺
CLERMONT HARBR	WD5BJT	444.150	+	T77.0	
CLINTON	KG5YV	444.000	+	T100.0	☺
ELLISVILLE	N5DWU	442.200	+	T167.9	☺
ELLISVILLE	N5DWU	442.250	+	T136.5	☺
GAUTIER	KA5NOJ	911.250	-		☺
GAUTIER	KA5NOJ	426.250	+		☺
GAUTIER	KC5LCW	443.450	+	123.0	☺
GLOSTER	N5ZNS	443.825	+		
GREENVILLE	N5PS	444.675	+	100.0	
GRENADA	AD5IT	444.700	+	T107.2	
HATTIESBURG	K5PN	443.700	+	T136.5	
HAZLEHURST	N5ZDF	443.950	+	T100.0	
HEIDELBERG	KC5RC	444.300	+	T100.0	
HICKORY FLAT	W4ZCD	444.725	+	T179.9	
INDIANOLA	AB5DU	444.850	+	136.5	
JACKSON	KB5LCL	444.450	+	T141.3	
JACKSON	KB5CO	444.600	+	T100.0	☺
JACKSON	NC5Y	444.700	+		
JACKSON	KB5CO	444.800	+		
JACKSON, EAST	AA5RZ	443.625	+		
LAUREL	W5NRU	443.650	+	T100.0	☺
MCCOMB	N5HTQ	444.875	+	T100.0	
MERIDIAN	KB5BRZ	444.100	+	131.8	
MERIDIAN	W5LRG	444.500	+	107.2	☺
NATCHEZ	N5IAT	443.800	+		
NETTLETON	AB5MU	444.625	+	192.8	
NEW ALBANY	WB5YCR	444.150	+		
NEW HEBRON	N5NNI	444.525	+	T	
O'REILLY	N5PS	444.975	+	PROP	
PEARL	KB5HAV	444.375	+	T88.5	
PETAL	W5CJR	443.350	+	T	
PHILADELPHIA	WB5YGI	444.950	+		
PICAYUNE	KE5LT	443.725	+	T179.9	☺
PINOLA	KC5LXF	444.850	+		
PORT GIBSON	KC5CLM	444.575	+	T141.3	☺
RAYMOND	W5PPB	443.600	+	77.0	☺
RICHTON	N5OCF	444.625	+		
RIDGELAND	N5WDG	443.700	+	T77.0	
SOUTHAVEN	NU5O	443.575	+	77.0	☺
SOUTHAVEN	N5PYQ	444.925	+	T107.2	
STARKVILLE	KD5GVU	444.750	+		☺
STENNIS SPC CEN	WB4FUR	444.650	+		
TUPELO	N5VGK	444.950	+	T192.8	
VICKSBURG	WB5TTE	444.925	+		
VOSSBURG	N5LRQ	442.725	+	T167.9	☺
WALLS	N5NBG	444.650	+		
WAYNESBORO	W5SAR	443.500	+		☺
WAYNESBORO	W5SAR	443.550	+		☺
WEST POINT	N5WXD	443.450	+		☺
WIGGINS	KB5DZJ	443.300	+	167.9	☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

NORTH CAROLINA

10 METERS

HIGH POINT	KE4QOX	29.640	-	T103.5	☺
NEWPORT	K4GRW	29.660	-	PROP	☺
ROCKY MOUNT	N4JEH	29.660	-		☺
THOMASVILLE	WW4DC	29.680	-	88.5	☺
WILKESBORO	KC4XE	29.620	-		☺
ZEBULON	WB4IUY	29.620	-		

6 METERS

AIR BELLOWS GAP	WA4PXV	53.750	-		
ASHEVILLE	WD4BQW	53.270	-		☺
BOONE	WA4NC	53.790	-	PROP	☺
CHAPEL HILL	W4UNC	53.450	-	T107.2	☺
CLINTON	W4TLP	53.330	-		☺
DURHAM	W4BAD	53.750	-		
EFLAND	WA1YYN	53.410	-	T107.2	☺
#FAYETTEVILLE	W4EBM	53.810	-	UNCOR	
GASTONIA	KC4YOT	53.110	-		
HENDERSONVILLE	W4FOT	53.130	-	T100.0	☺
KVILLE/HIPOINT	KF4QDS	53.590	-	T103.5	
LUMBERTON	KD4BGD	53.110	-		☺
MONROE	W4ZO	53.370	-	T100.0	
MT MITCHELL	AB4JJ	53.630	-	T100.0	☺
MT. AIRY	N4DAJ	53.970	-	T100.0	☺
MT.AIRY/FANCY GP	KD4FWS	53.070	-	T100.0	
PITTSBORO	KD4JFN	53.230	-	T107.2	☺
RALEIGH	K4ITL	53.030	-		☺
RALEIGH	W4BAD	53.190	-		
REELSBORO	KF4IXW	53.090	-	T162.2	☺
ROBBINSVILLE	KD4YWB	53.710	-	PROP	
ROCKY MOUNT	N4JEH	53.050	-		☺
SAURATOWN MT	N4QLX	53.210	-		
SOPHIA/RANDLEMAN	WR4BEG	53.350	-		☺
SPRUCE PINE	WA4PXV	53.050	-	T151.4	
TARBORO	K4SER	53.110	-		☺
THOMASVILLE	KE4QOX	53.010	-	T88.5	☺
THOMASVILLE	WW4DC	53.170	-	88.5	☺
THOMASVILLE	WW4DC	52.525	+	T88.5	☺
WEST JEFFERSON	AB4JJ	53.310	-	T100.0	☺
WEST JEFFERSON	AB4JJ	53.390	-	T100.0	☺
WILLIAMSTON	K4SER	53.310	-		☺
WILMINGTON	AD4DN	53.430	-	T88.5	☺
YOUNGSVILLE	KD4MYE	53.370	-	T	☺

2 METERS

AHOSKIE	WB4YNF	145.130	-		☺
AHOSKIE	WA4ZGQ	146.910	-	T131.8	☺
ALBEMARLE	K4OGB	146.985	-	T100.0	☺
ANDRWS/ROBNSVL	K4AIH	147.045	-	T151.4	☺
ANDSN MT/DENVER	K4CCR	145.170	-	88.5	☺
ASHEBORO	K4ITL	145.270	-	T82.5	☺
ASHEVILLE	WB4PLA	146.835	-		☺
ASHVL/MT PISGAH	WA4BVW	146.760	-		☺
ASHVL/SPIVEY MT	W4MOE	146.910	-	91.5	☺
BAKERSVILLE	KC4WPM	145.310	-		☺
BENSON	KD4BJD	146.970	-		☺
BETHEL	KD4EAD	147.375	+	T151.4	
BEULAVILLE	N4VBH	145.230	-		
BOONE/RICH MTN	WA4J	147.360	+	T103.5	☺
BREVARD	K4HXZ	147.135	+		☺
BURGAW	K4CTY	146.940	-		☺
BURLINGTON	K4FHB	146.670	-		☺
BURNSVILLE	KD4WAR	146.955	-		
BURNSVILLE	KD4WAR	147.375	+		
BUTNER	N4NCK	145.370	-		☺
BUTNER	WA4IZG	146.940	-	T156.7	
BUXTON	K4USB	146.625	-	131.8	☺
CANTON	W4DJB	146.805	+		☺
CARTHAGE	KG4BOS	147.240	+		☺
CHAPEL HILL	W4UNC	145.230	-	T107.2	☺
CHAPEL HILL	K4ITL	147.135	+	T82.5	☺
CHARLOTTE	W4BFB	145.230	-		☺
CHARLOTTE	W4BFB	145.290	-		☺
CHARLOTTE	WA4AOS	145.350	-		☺
CHARLOTTE	W4BFB	146.940	-		☺
CHARLOTTE	W4CQ	147.060	-		☺
CHARLOTTE	W4CQ	147.270	+		☺
CHERRY MTN	KG4JIA	147.240	+	94.8	☺
CHINA GROVE	N4XO	145.410	-	136.5	
CLAREMONT	WB4SRV	147.225	+	T162.2	
CLAYTON	WB4IUY	147.390	+	T88.5	
CLINTON	W4TLP	146.790	-		☺
COINJOCK	WN3X	145.290	-	131.8	
COLUMBIA	KB4TOH	146.835	-	T131.8	☺
CONCORD/KANNAP.	K4CEB	146.655	-		☺
DOBSON	AD4T	146.925	-	T100.0	☺
DUNN	N4CID	146.700	-		☺
DURHAM	WR4AGC	145.450	-		
DURHAM	K4JPE	146.985	-	PROP	
DURHAM	WD4LDB	147.360	+		
EDEN/STONEVILLE	WA4QBG	147.390	+		
EFLAND	WA1YYN	147.180	+	T156.7	☺
ELIZABETH CITY	KC4QLP	145.250	-	PROP	
ELIZABETH CITY	WA4VTX	146.655	-	131.8	☺
ELM CITY	K2IMO	145.150	-	T88.5	☺
EMERALD ISLE	KI4RK	145.330	-	PROP	☺
FARMVILLE	K4ROK	145.270	-	T131.8	☺
FAYETTEVILLE	WA4FLR	147.330	+		
FAYVLLE/CFARS	WB4YZF	146.910	-	100	
FOREST CITY	K4OI	146.670	-	PROP	
FRANKLIN	NT4K	145.490	-		
FRANKLIN	W4GHZ	147.240	+	T151.4	☺
GASTONIA	WD4LCF	145.450	-	T	
GASTONIA/CRWDR	K4GNC	146.805	-		☺
GASTONIA/SPCR MT	N4GAS	147.120	+		☺
GIBSONVILLE	WB4IKY	145.490	-	T107.2	☺
GOLDSBORO	KI4RK	145.330	-	100.0	☺
GOLDSBORO	K4CYP	146.850	-	T	☺
GRAHAM	K4GWH	147.375	+	T114.8	☺
GREENSBORO	W4GSO	145.150	-	100.0	☺
GREENSBORO	W4GG	145.250	-	T88.5	☺
GREENSBORO	K4GWH	146.760	-	T156.7	☺
GREENSBORO	KG4BTN	147.030	+	T131.8	
GREENSBORO	W4BUZ	147.210	+		
GREENVILLE	WD4JPQ	145.350	-	T131.8	
GREENVL/ESTN NC	W4GDF	147.090	+		☺
GRIFTON	W4NBR	146.685	-	88.5	☺
HATTERAS ISLAND	K4OBX	145.150	-	T131.8	☺
HAW RIVER	KD4JFN	146.715	-	T107.2	☺
HENDERSONVILLE	WB4YAO	146.640	-	T91.5	☺
HENDERSONVILLE	WA4KNI	147.105	+		☺
HENDSVL/BERWLW	WA4KNI	145.270	-		☺
HENDSVL/PENIC	WA4KNI	147.255	+		☺
HICKORY	KF4LUC	145.490	-	PROP	
HICKORY/BRT. MT	WA4DSZ	146.850	-		
HIGH PEAK MTN	K4OLC	145.210	-	94.8	
HIGH POINT	NC4AR	145.290	-	T88.5	☺
HIGH POINT	W4UA	147.165	+		☺
HILLSBOROUGH	WR4AGC	147.225	+		
HOLDEN BEACH	W4ZU	146.775	-	T100.0	☺
#HOPE MILLS	W4IDR	146.835	+	UNCOR	
JACKSONVILLE	KA4SQN	145.190	-		
JACKSONVILLE	WD4FVO	147.000	-		☺
JEFFERSON	W4YSB	147.300	+	T103.5	☺
KANNAPOLIS	N4JEX	147.300	+	T136.5	☺
KILL DEVIL HILLS	W4PCN	145.110	-	T131.8	
KINSTON	W4OIX	145.470	-		☺
LAURINBURG	KI4RR	146.625	-		☺
#LENOIR	N4NIN	147.195	+	UNCOR	
LENOIR/HIBRITN	KN4K	147.330	+	T141.3	☺
LEVEL CROSS	K4ITL	147.255	+	T82.5	☺
LEXINGTON	N4LEX	145.310	-	T88.5	☺
LEXINGTON	W4PAR	146.910	-	T107.2	☺
LILLINGTON	K4ITL	147.105	+	T82.5	☺
LINCOLNTON	NC4LC	147.015	+	141.3	☺
LOCUST	WA4CHZ	147.390	+	T100.0	☺
#LUMBERTON	W4LBT	145.150	-	UNCOR	☺
LUMBERTON	W4NHV	147.045	+		☺
LUMBERTON	KD4PBK	147.165	+	T88.5	☺
LUMBERTON	W4PET	147.360	+		☺
MACO	KB4BR	147.060	+	T	☺
MADISON	WA4IXW	147.345	+	T103.5	☺
MARION	WD4PVE	146.985	-	118.8	
MILLERS CREEK	N4GGN	146.715	-		☺
MONROE/UCARS	NC4UC	145.390	-	T94.8	☺
MORGANTON	KC4QPR	146.745	-	94.8	☺
MORGANTON	K4VLY	147.150	+		
MOUNT AIRY	N4VRD	145.330	-	T100.0	☺
MT MITCHELL	WA4BVW	145.190	-		☺
MT. AIRY	N4VL	145.130	-	T103.5	☺
MURPHY/STALCUP	N4WCO	146.865	+	T151.4	☺
N. WILKESBORO	W4HF	145.370	-	T94.8	☺
NASHVILLE	WA4WPD	145.290	-	T107.2	☺
NEW BERN	W4EWN	146.610	-	T100.0	☺
NEWPORT	K4GRW	145.450	-		☺
NEWTON	K4CCR	147.075	+	T88.5	☺
ORIENTAL	W4SLH	147.210	+	T151.4	☺
OXFORD	N4NCK	145.170	-		☺
PITTSBORO	KD4JFN	147.075	+	T146.2	☺
RAEFORD	KU4W	145.430	-	100.0	☺
RALEIGH	W4RNC	145.130	-	T88.5	☺
RALEIGH	K4GWH	145.190	-	T156.7	☺
RALEIGH	WB4TQD	145.390	-	T82.5	☺
RALEIGH	W4BWC	145.490	-	T82.5	☺
RALEIGH	WB4TOP	146.610	-	T131.8	☺
RALEIGH	W4DW	146.640	-		☺
RALEIGH	W4BWC	146.730	-	T82.5	☺
RALEIGH	NC4SU	146.775	-	T88.5	☺
RALEIGH	WB4TQD	146.880	-		☺
RALEIGH	W4BAD	147.015	+	T88.5	☺
RALEIGH	KO4CW	147.195	+	T88.5	
RALEIGH/BENSON	AK4H	147.270	+		☺
RED SPRINGS	W4MZP	147.300	+		☺
REIDSVILLE	N4IV	146.850	-	T103.5	☺
ROANOKE RAPIDS	N4WFU	146.745	-	T131.8	
ROANOKE RAPIDS	KB4DJT	147.030	+		
ROANOKE RAPIDS	K4ITL	147.150	+	T82.5	☺
ROBBINSVILLE	N4GSM	145.110	-	T151.4	☺
ROCKINGHAM	K4RNC	146.955	-		☺
ROCKY MOUNT	W4DCG	146.805	-	T118.8	☺
ROCKY MOUNT	WN4Z	147.120	+	T131.8	☺
ROLESVILLE	KF4HFQ	147.315	+	T88.5	
ROSEBORO	K4ITL	145.310	-		☺
SALISBURY	W4EXU	146.730	-	T94.8	☺
SALISBURY	KG4WAD	146.775	-	T94.8	
SAURATOWN MT	W4NC	145.470	-	T100.0	☺
SAURATOWN MT	KG4ASL	146.790	-	T107.2	☺
SAURATOWN MT	K4MPJ	147.315	+	T100.0	☺
SHALLOTTE	K4PPD	145.370	-		
SHALLOTTE	K4PPD	147.315	+	T118.8	
SHALLOTTE	K4PPD	147.390	+		
SHELBY	W4NYR	146.880	-		
SHELBY	W4NYR	147.345	+		
SPARTA/GREEN MT	K4QFQ	145.430	-		☺
STAR/BISCOE	KI4DH	147.090	+	100.0	☺
STATESVILLE	W4SNC	146.685	-		☺
SWANSBORO	KB2XI	146.760	-		☺
SYLVA	KF4DTL	147.345	+	151.4	
THOMASVILLE	KF4QDS	146.610	-	T123.0	
THOMASVILLE	KB4BPV	146.835	+	T88.5	
THOMASVILLE	WW4DC	147.000	+	T88.5	☺
TRENTON	WB4TQD	145.210	-		☺
#TROUTMAN	KC4MJC	147.045	+	UNCOR	☺
TRYON	KF4JVI	145.330	-		☺
TRYON	W4RCW	147.285	+		☺
WADESBORO	W4USH	146.835	-		☺
WANCHESE	W4ACY	146.940	-	T131.8	
WASHINGTON	WA4TEP	147.345	+		☺
WAXHAW	WA4ZRS	146.865	+	T94.8	☺
WAYNESVILLE	N4SM	147.270	+		
WAYNESVILLE	N4DTR	147.390	+		
WHITEVILLE	W4NTQ	147.210	+		☺
WILKESBORO	WB4PZA	146.820	-		☺
WILLIAMSTON	K4SER	145.410	-	T131.8	☺
WILMINGTON	N4JDW	145.170	-	T88.5	
WILMINGTON	AD4DN	146.670	-	T88.5	☺
WILMINGTON	N4ILM	146.730	-		☺
WILMINGTON	K4GMP	146.820	-	T88.5	☺
WILMINGTON	WA4US	147.135	+	T67.0	☺
WILMINGTON	AC4RC	147.180	+	T88.5	☺
WILSON	WB4THL	146.760	-	131.8	☺
WILSON	WB4IUY	147.300	+	PROP	
WINSTON-SALEM	W4NC	146.640	-	T100.0	☺
YADKINVILLE	N4YSB	147.015	-		☺
YOUNGSVILLE	KD4MYE	145.110	-	88.5	☺

220 MHZ

ANDRWS/ROBINSVL	K4AIH	224.880	-	T	☺
ASHEVILLE	KD4CJG	224.520	-	T91.5	
ASHEVILLE	WB4PLA	224.600	-		☺
ASHVL/MT PISGAH	WA4BVW	224.260	-		☺
BANNER ELK	WA4NC	224.840	-	PROP	☺
BARIUM SPRINGS	WA4WRS	224.300	-		☺
BIG KNB/MARS HIL	KE4RQL	224.660	-	100.0	
#BIG PHOENIX MTN.	KC4KUL	224.600	-	UNCOR	
BURNSVILLE	KD4WAR	224.740	-		
CANTON	N4DWU	224.820	-		☺
CARY	W4JYV	224.880	-	PROP	
CHAPEL HILL	K4ITL	224.120	-	PROP	☺
CHARLOTTE	W4BFB	224.400	-		☺
CHERRY MTN	KG4JIA	224.640	-	PROP	☺
CHERRYVILLE	KC4ZTJ	224.960	-		
CLEMMONS	WB9SZL	224.700	-	T100.0	☺
DUNCAN	KM4TC	224.700	-	T88.5	
EDEN	N4IV	224.780	-	T103.5	☺
EFLAND	WA1YYN	224.660	-	T107.2	☺
FAYETTEVILLE	WB4YZF	224.560	-		
GASTONIA	KC4IRA	224.620	-	T127.3	☺
GREENSBORO	WB4GUG	224.440	-	T107.2	
GREENSBORO	N4QVI	224.960	-		
GRIFTON	WA4DAN	224.840	-		☺
GRIMESLAND	WB4PAC	224.360	-		
HAW RIVER	KD4JFN	224.620	-	T107.2	☺
HENDERSONVILLE	N4UQS	224.960	-		
HENDSVL/BERWLW	WA4KNI	224.240	-		☺
HILLSBOROUGH	WR4AGC	224.260	-		
JACKSONVILLE	KA4SQN	224.320	-		
KERNERSVILLE	KF4IXK	224.820	-	T107.2	
KVILLE/HIPOINT	KE4QOX	224.240	-	T107.2	☺
LENOIR/HIBRITN	KN4K	224.160	-		☺
LOCUST	KC4FWC	224.480	-		
MARSHALL	WA4TG	224.360	-		
MT MITCHELL	WA4BVW	224.540	-		☺
OXFORD	N4NCK	224.740	-		☺
PLYMOUTH	KB7BTU	224.760	-	T131.8	
RALEIGH	K4ITL	224.160	-		☺
RALEIGH	W4RNC	224.640	-		☺
ROBBINSVILLE	N4GSM	223.940	-	PROP	
ROCKY MOUNT	NF4C	224.220	-		☺
ROCKY MOUNT	KR4AA	224.580	-		☺
SALISBURY	W4EXU	224.760	-		☺
SHELBY	W4NYR	224.060	-		
SHELBY	KC4ZTJ	224.460	-		
SOPHIS/RANDLEMAN	WR4BEG	224.140	-	T	☺
THOMASVILLE	WW4DC	224.340	-	T88.5	☺
TRENTON	WA4DAN	224.720	-		☺
WILMINGTON	WA4US	224.200	-	T	☺
WILMINGTON	AD4DN	224.500	-	T88.5	☺
WILMINGTON	WB4KPF	224.680	-		

440 MHZ

AHOSKIE	WB4YNF	444.200	+	T	☺
AIR BELLOWS GAP	WA4PXV	443.575	+		
ANDRWS/ROBINSVL	WD4NWV	442.600	+	T151.4	☺
ANDRWS/ROBINSVL	K4AIH	443.650	+	T	☺
ANDSN MT/DENVER	K4CCR	444.075	+	88.5	☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

N. CAROLINA REPEATERS CONTINUE

APEX	KD4PBS	442.075	+	T114.8	☺
ASHEBORO	KE4QAP	444.975	+		
ASHEVILLE	WA4TOG	442.550	+		☺
ASHEVILLE	KD4GEU	442.650	+		
ASHEVILLE	KF4TLA	443.275	+	T103.5	☺
AUBURN	N4ZCM	442.275	+		
BENSON	K4JDR	444.550	+	PROP	☺
BLADENBORO	KC4FWC	444.325	+	T77.0	
BLADENBORO	KC4FWC	444.725	+	77.0	
BOONE/RICH MT	KC4FWC	444.575	+	T77.0	
BREVARD	AG4AZ	442.850	+		☺
BRYSON CITY	N0SU	443.400	+	T151.4	☺
BUIES CREEK	NC4BJ	444.275	+	PROP	
BURGAW	N4JDW	444.075	+	PROP	
BURNSVILLE	KD4WAR	443.650	+		
CANTON	KE4UIU	443.475	+	T156.7	
CARY	K4JDR	444.775	+	T100.0	☺
CASTALIA	N4JEH	444.975	+	T107.2	☺
CHAPEL HILL	W4UNC	442.150	+	T131.8	☺
CHAPEL HILL	W4UNC	443.475	+	T131.8	☺
CHARLOTTE	W4PPN	421.250	+		
CHARLOTTE	N4IBM	442.650	+		☺
CHARLOTTE	KD4OWV	443.950	+		
CHARLOTTE	K4KAY	444.350	+	T118.8	
CHARLOTTE	W4CQ	444.450	+		☺
CHARLOTTE	W4BFB	444.600	+	T100.0	☺
CHARLOTTE	W4WBT	444.675	+		
CHARLOTTE	W4CQ	444.850	+		☺
CHARLOTTE	WA1WXL	444.950	+	T136.5	☺
CHERRY MTN	KG4JIA	442.500	+	94.8	☺
CHINA GROVE	N4JEX	443.250	+	T136.5	☺
CLAREMONT	WB4SRV	443.775	+	T118.8	
CLAYTON	W4ATC	444.150	+	T100.0	☺
COLUMBIA	KB4TOH	443.300	+	131.8	☺
COLUMBUS	K4JLA	442.075	+	T103.5	☺
CONCORD	N2QJI	442.525	+	PROP	☺
CRAB CREEK TWP	KB4PQA	443.125	+		☺
CROWDER'S MT	KD4FRP	443.675	+		
DALLAS CHLT	KC4YOZ	443.850	+	T100.0	☺
DURHAM	WR4AGC	444.100	+		
DURHAM	W4BAD	444.575	+	T88.5	
DURHAM	KB4WGA	444.925	+	T100.0	☺
DURHAM TV HILL	KJ4SO	421.250	+		
EFLAND	WA1YYN	442.050	+	T107.2	☺
ELIZABETH CITY	WA4VTX	444.300	+	131.8	☺
ELM CITY	K2IMO	442.325	+	PROP	☺
FAYETTEVILLE	WB4YZF	444.400	+	100HZ	
FOREST CITY	AI4M	443.300	+	T114.8	☺
FOUNTAIN	N4HAJ	444.425	+	PROP	
FRANKLIN	N4DTR	444.375	+	T131.8	
GASTONIA	KC4YOT	442.700	+	PROP	
GASTONIA	KG4LWG	442.775	+	T123.0	
GASTONIA	NC4GC	444.750	+		☺
GASTONIA/CRWDR	KC4ZTI	443.750	+		
GASTONIA/CRWDR	AG4EI	444.150	+	T	☺
GASTONIA/SPCR MT	N4GAS	444.550	+		☺
GIBSONVILLE	WB4IKY	443.025	+	T107.2	☺
GIBSONVILLE	WB4IKY	444.350	+	T107.2	☺
GOLDSBORO	KI4RK	443.000	+	T100.0	☺
GRAHAM	K4GWH	443.725	+	T156.7	☺
GRANTSBORO	KR4LO	444.350	+		☺
GREENSBORO	KO4AT	421.250	+		☺
GREENSBORO	KG4BTN	441.975	+	PROP	
GREENSBORO	W4GSO	442.875	+	T88.5	☺
GREENSBORO	KG4BTN	443.650	+	88.5	☺
GREENSBORO	K4GWH	444.225	+	T146.2	☺
GREENSBORO	KG4BTN	444.475	+	107.2	☺
GREENSBORO	KF4DWV	444.950	+	PROP	
GREENVILLE	WB4PMQ	444.800	+	T131.8	☺
HATTERAS ISLAND	K4OBX	444.925	+	T131.8	☺
HAW RIVER	KD4JFN	443.775	+	T107.2	☺
HENDERSON	KG4IWI	442.125	+	T88.5	☺
HENDERSON	KB4WGA	444.375	+	T100.0	☺
HENDERSONVILLE	WA4TOG	442.450	+		☺
HENDSVL/BERWLW	WA4KNI	444.250	+		☺
HICKORY	WA4PXV	442.375	+		
HICKORY	K4JEQ	444.000	+		
HICKORY	KF4LUC	444.800	+	T94.8	☺
HIGH POINT	W4UA	443.900	+		☺
HIGH POINT	KD4JFN	444.025	+	T107.2	☺
HILLSBOROUGH	WA1YYN	443.950	+	PROP	☺
HILLSBOROUGH	WR4AGC	444.450	+	T100.0	
HOLLY SPRINGS	KF4AUF	444.325	+	T100.0	
HUNTERSVILLE	W8EMX	443.225	+	PROP	
#JACKSONVILLE	KE4JDP	444.675	+	UNCOR	
KANNAPOLIS	N4JEX	443.350	+	T136.5	☺
KERNERSVILLE	KF4DAR	442.975	+	T107.2	
KERNERSVILLE	KF4IXK	443.325	+	T131.8	
#KING/SAURATOWN	KE4QEA	444.200	+	UNCOR	☺
KINSTON	N4HAJ	444.575	+	T88.5	
KVILLE/H POINT	KE4QOX	443.700	+	T103.5	☺
LAKE GASTON	KF5TU	442.350	+	T100.HZ	☺
LENOIR/CAJAH MT	N4EUX	443.525	+		
LEXINGTON	KO0NTZ	442.275	+	T146.2	☺
LEXINGTON	K4AE	442.425	+	T107.2	☺
LEXINGTON	K4CH	442.925	+	T107.2	☺
LEXINGTON	W4PAR	444.500	+	T107.2	☺
LILLINGTON	W4FBC	444.175	+	PROP	
LINCOLNTON	WA4YGD	442.350	+		☺
LINVILLE	KC4UBR	442.175	+	T136.5	
LOCUST	WA4LBT	443.700	+		
LOUISBURG	N4EWS	444.250	+	88.5	
LUMBERTON	WB4DVN	444.625	+		
LUMBERTON	KD4BGD	444.700	+	T114.8	☺
MAYODAN	WA4WGY	443.975	+		
MCLEANSVILLE	WB4GUG	444.125	+	T	
MIDDLESEX	NE4J	444.650	+	T179.9	
MONROE	W4ZO	444.300	+	T100.0	
MONROE	NC4UC	444.425	+	T94.8	☺
MORAVIAN FALLS	KA2NAX	442.675	+	PROP	
MOREHEAD CITY	KD4RAA	444.825	+	T100.0	☺
MORG/WALKER TOP	KC4QPR	442.300	+	94.8	☺
MORGANTON	KC4QZL	443.800	+	T	
MOUNT AIRY	N4XRY	444.925	+		
MT AIRY/FSH PK	KF4UY	444.825	+	T100.0	☺
MT MITCHELL	N4DWU	443.600	+	114.8	☺
NASHVILLE	N4JEH	443.700	+	T107.2	☺
NEW BERN	W4EWN	444.900	+	T100.0	☺
NEWEL	WT4IX	442.125	+	PROP	
NEWPORT CCARS	W4YMI	444.975	+		☺
NEWTON	KE4KIV	442.625	+		
OLD FORT	KR4EX	444.775	+		
OXFORD	NO4EL	444.600	+		
PINEY KNOB	KC4KPW	443.875	+	T103.5	
PITTSBORO	K1BUD	442.550	+	T	☺
PITTSBORO	KD4JFN	444.750	+	T146.2	☺
POLKVILLE	KC4ZTJ	444.975	+		
RALEIGH	N4LMR	442.450	+		
RALEIGH	W4MLU	442.575	+	T	☺
RALEIGH	NC4SU	442.675	+	100.0	
RALEIGH	WA4NNA	443.125	+		☺
RALEIGH	N4ZCM	443.225	+	T	
RALEIGH	W1IFL	443.375	+	T	
RALEIGH	W4RNC	444.525	+	T82.5	☺
RALEIGH	KD4RAA	444.675	+	T100.0	☺
RALEIGH	K4GWH	444.825	+	T146.2	☺
RALEIGH	W4BAD	444.850	+	T100.0	
RALEIGH	KD4RAA	444.875	+	T100.0	☺
REIDSVILLE	K4YEC	444.800	+	T107.2	
RES. TRIANGLE PK	WA1YYN	443.425	+	T156.7	☺
RES. TRIANGLE PK	W4EUS	443.625	+		
ROANOKE RAPIDS	KA4BQM	444.550	+	T192.8	
#ROCKINGHAM	KC4FWC	443.825	+	UNCOR	
ROCKY MOUNT	N4JEH	444.700	+	T107.2	☺
ROCKY MOUNT	WN4Z	444.850	+	T131.8	☺
ROLESVILLE	KF4HFQ	444.950	+	T88.5	
ROUGEMNT/RED MT	WA4WTX	443.275	+	100.0	
ROXBORO	KE4GYN	442.175	+	T156.7	☺
SALISBURY	W4HG	443.150	+	T136.5	
SALISBURY	KJ4HF	444.650	+	T88.5	☺
SAURATOWN MT	KE4QOX	443.100	+	T88.5	☺
SAURATOWN MT	WB4GUG	443.400	+	T107.2	
SAURATOWN MTN	W1WBT	443.050	+	T136.5	
SCOTLAND NECK	WA4TCC	444.075	+	PROP	
SELMA	KI4RK	444.000	+		☺
#SHELBY	W4NYR	427.250	+	UNCOR	
SHELBY	W4NYR	444.325	+		
SOPHIA/RANDLEMAN	WR4BEG	443.075	+		☺
SOUTHERN PINES	KD4QMS	444.800	+	T118.8	
STANFIELD	KC4FWC	443.200	+	T77.0	
STATESVILLE	N4VOZ	443.450	+		
STATESVILLE	AE4GA	444.700	+	T94.8	☺
TARBORO	N4JEH	444.500	+	T100.0	☺
TARBORO	N4NTO	444.925	+	T118.8	☺
TAYLORSVILLE	W4ERT	441.625	+	T123.0	
TAYLORSVILLE	W4ERT	442.950	+	T151.4	
THOMASVILLE	WW4DC	442.900	+	T88.5	☺
VALDESE	WA4PXV	442.600	+		
WAXHAW	WA4ZRS	444.525	+	T94.8	☺
WAYNESVILLE	N4DTR	444.450	+		
WENTWORTH	N4IV	442.100	+	PROP	☺
WEST JEFFERSON	AB4JJ	443.500	+	T107.2	☺
WILKESBORO	KE4DGP	442.475	+	T107.2	
WILKESBORO	KC4XE	443.550	+		☺
WILLIAMSTON	K4SER	444.250	+	T131.8	☺
WILMINGTON	N4JDW	442.075	+	T88.5	
WILMINGTON	WA4US	442.175	+		☺
WILMINGTON	WA4US	442.200	+	T	☺
WILMINGTON	K4YNY	442.500	+	T88.5	
WILMINGTON	AD4DN	443.400	+	T88.5	☺
WILMINGTON	WA4US	443.850	+		☺
WILMINGTON	WA4US	443.950	+		☺
WILMINGTON	N4JDW	444.050	+	T88.5	
WILMINGTON	WA4US	444.200	+		☺
WILMINGTON	WA4US	444.450	+		☺
WILMINGTON	WA4US	444.650	+		☺
WILMINGTON	K4GMP	444.850	+	T88.5	☺
WILSON	W4EJ	444.900	+	T179.9	☺
WINGATE	WB4U	444.875	+	T127.3	☺
WINSTON-SALEM	W4NC	444.275	+		☺
WINSTON-SALEM	KD4MMP	444.725	+	T107.2	☺
YADKINVILLE	KD4KMK	442.025	+	T100.0	☺
YADKINVILLE	N4AAD	442.800	+	T100.0	☺
YOUNGSVILLE	KC4WDI	443.200	+	T88.5	☺
ZEBULON	N1GMV	444.475	+	T88.5	
ZIRCONIA	N2QJI	441.900	+	PROP	☺

900 MHZ

BEAR WALLOW	WA4TOG	927.550	-	PROP	☺
CONCORD	N2QJI	927.6625	-	PROP	☺
DURHAM	KB4WGA	927.6125	-	PROP	☺
RALEIGH	W4FAL	927.6625	-	T156.7	☺
WAYNESVILLE	N4DTR	927.6625	-	T131.8	

1270 MHZ

#CHARLOTTE	W4PPN	1253.250	+	UNCOR	
CONCORD	N2QJI	1282.525	-	PROP	☺
GASTONIA/CRWDR	AG4EI	1292.820	-		☺
WILMINGTON	AD4DN	1291.410	-	88.5	☺

SOUTH CAROLINA

10 METERS

SUMTER	W4GL	29.660	-		☺

6 METERS

BISHOPVILLE	K4NOC	53.090	-		☺
CHESTER	KF4SXO	53.290	-		
GVL/CSR'S HEAD	KO4MZ	53.410	-	T131.8	
LEESVILLE	N5CWH	53.270	-	T162.2	☺
LITTLE MOUNTAIN	KN4AS	53.190	-	T156.7	
MOUNTAIN REST	KF4IWA	53.590	-		
ORANGEBURG	AD4U	53.210	-		☺
ROCK HILL	KI4D	53.250	-	PROP	
SUMTER	W4GL	53.770	-		☺
UNION	K4USC	53.150	-		☺
WALTERBORO	KG4BZN	53.310	-	123.0	☺

2 METERS

AIKEN	KY4S	145.170	-		☺
AIKEN	N4ADM	147.285	+		☺
ANDERSON	N4AW	146.970	-		☺
ANDERSON/SAS MT	N4AW	146.790	-		☺
AWENDAW	K4LWS	147.300	+	T103.5	
BAMBERG	WA4DFP	145.330	-		
BARNWELL	KK4BQ	147.030	+	T156.7	☺
BEAUFORT	W4IAR	145.310	-		☺
BEAUFORT	KD4KOJ	146.655	-		☺
BISHOPVILLE	K4NOC	145.170	-	T123.0	☺
BISHOPVILLE	W4APE	146.925	-		☺
CAMDEN	KT4NZ	146.820	-	PROP	
CHARLESTON	WA4USN	145.250	-	123.0	
CHARLESTON	WA4USN	146.790	-		
CHARLESTON	KT4YW	146.835	-		☺
CHARLESTON	N7GZT	146.940	-	T	☺
CHARLESTON	KF4CDR	147.345	+	T	
CHARLESTON AR	WA4USN	145.410	-		☺
CHARLESTON AREA	W4ANK	147.270	+		
CHERAW	W4APE	145.490	-		☺
CHESTER	W4CHR	145.310	-		☺
CHESTER	KF4SXO	146.625	-		
CHESTERFIELD	K4CCC	147.135	+		☺
CLEMSON UNIV	WD4EOG	145.450	-	T	
COLUMBIA	N7GZT	145.270	-	T162.2	☺
COLUMBIA	WB4NEP	146.715	-		
COLUMBIA	KF4GHC	147.330	+	156.7	☺
COLUMBIA	N4EOY	147.360	+		
DILLON/PEE DEE	W4JJ	146.745	-		☺
EASTOVER	KT4BU	147.075	+	T156.7	☺
ELLOREE	KC4WIF	146.610	-	T118.8	☺
FLORENCE	W4ULH	146.850	-		☺
FLORENCE	W4GEY	146.970	-		☺
FLORENCE	W4APE	147.195	+		☺
FORT JACKSON	KF4GHC	146.775	-	T156.7	☺
FORT MILL	WZ4SC	145.110	-		☺
FORT MILL	W4DXA	147.180	+		☺
GAFFNEY	KN4RG	145.470	-	T141.3	☺
GEORGETOWN	KI4CB	147.375	+		☺
GREELEYVILLE	KG4AQH	145.230	-		☺
GREENVILLE	W4IQQ	146.940	-		☺
GREENWOOD	W4JAK	145.130	-		☺
GREENWOOD	W4GWD	147.165	+	107.2	☺
#GREENWOOD	K4LEO	147.375	+	UNCOR	
GRNVLE/CSRS HD	W4NYK	146.610	-		☺
GRNVLE/PARIS MT	W4NYK	146.820	-		☺
HILTON HEAD	W4IAR	147.240	+	T	☺
#LANCASTER	W4PAX	146.700	-	UNCOR	☺
LANCASTER	AC4VT	147.240	+	T88.5	
LAURENS	KD4HLH	146.865	-	T107.2	☺
LEESVILLE	N5CWH	146.655	-	T162.2	☺
LEESVILLE	W4RRC	147.255	+	T123.0	☺
LEXINGTON	KA4FEC	147.390	+		☺
LITTLE MT.	K4AVU	147.210	+		
LITTLE RIVER	KF4VGX	146.865	-	PROP	
MARION	KD4HTW	147.000	-	T192.8	☺
MONCKS CORNER	WD4NUN	147.150	+	T	☺
MOUNTAIN REST	KU4OL	147.030	-		
MT PLEASANT	K4ESG	146.760	-	T	
MT. PLEASANT	N7GZT	145.450	-	T	☺
MYB BCH/BRKSVIL	N4LV	147.285	+		
MYR BCH/ANYOR	K4SHP	147.090	+	PROP	

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

S. CAROLINA REPEATERS CONTINUE

MYR BCH/CONWAY	W4GS	145.110	-		☺
MYR BCH/CONWAY	KI4CB	145.470	-		☺
MYRTLE BEACH	W4GS	145.290	-	85.4	☺
MYRTLE BEACH	W4GS	147.120	+		☺
MYRTLE BEACH	K2PJ	147.240	+	PROP	
N. AUGUSTA	K4NAB	146.730	-	T	☺
#N. MYRTLE BEACH	N4JTH	147.030	+	UNCOR	☺
ORANGEBURG	KF4ATU	146.805	-	T156.7	
ORANGEBURG	N7GZT	146.880	-	T	☺
ORANGEBURG	KF4ATU	147.090	+	T156.7	
PAGELAND	W4APE	146.895	-		☺
PALMETTO	KB4RRC	147.345	+	PROP	
PAULINE	K4JLA	147.090	+		☺
PICKENS	WT4F	146.700	-	107.2	
PICKENS	WB4YXZ	147.000	-		
PINE RIDGE	KD4BMX	146.955	-	T162.2	☺
PUMPKINTOWN	KU4ZS	145.290	-	PROP	
ROCK HILL	K4YTZ	147.030	-		
SAVANNAH RIVER	W4ZKM	145.450	-	PROP	
SENECA/LONG MT	WA4JRJ	147.270	+		☺
SIMPSONVILLE	WA4UKX	145.250	-	PROP	☺
SIMPSONVILLE	WA4UKX	146.730	-	100.0	☺
SMOAKS	KG4LAP	145.210	-		
SPARTANBURG	K4JLA	147.315	+		☺
ST. GEORGE	K4ILT	147.045	+	103.5	☺
ST. GEORGE	W4DTW	147.225	+		☺
ST. MATTHEWS	AD4U	146.670	-	T156.7	☺
SUMMERTON	N4LWY	145.150	-		
SUMMERVILLE	W4HNK	147.180	+	123.0	☺
SUMTER	K4JR	145.130	-		☺
SUMTER	K4JR	145.430	-	T156.7	☺
SUMTER	W4GL	146.640	-		☺
SUMTER	W4GL	147.015	+	156.7	☺
SUMTER/SHAW	W4VFR	147.060	+		
UNION	K4USC	145.150	-		☺
UNION	K4USC	146.685	-		☺
WALTERBORO	KG4BZN	145.390	-		
WALTERBORO	KG4BZN	147.135	+		☺
WHITE HALL	WA4SJS	146.910	-		☺

220 MHZ

BISHOPVILLE	K4NOC	224.860	-		☺
COLUMBIA	N7GZT	224.160	-		☺
COLUMBIA	N7GZT	224.640	-		☺
COLUMBIA	N4EOY	224.900	-		
CROSS	KB4VFD	224.580	-		
FLORENCE	N4JJ	224.940	-		☺
FORT MILL	WZ4SC	224.800	-		☺
GAFFNEY	KG4JIA	224.500	-	T123.0	☺
GREENVILLE	W4ILY	224.200	-		☺
GRNVL/DOWNTWN	W4NYK	224.920	-	88.5	☺
LEESVILLE	N5CWH	224.560	-	T162.2	☺
LITTLE MTN	N7GZT	224.520	-		☺
ORANGEBURG	N7GZT	224.180	-		☺
ORANGEBURG	KO4BR	224.780	-		☺
PICKENS	AC4RZ	224.280	-		
PICKENS	WB4QHF	224.400	-	T131.8	☺
PICKENS/CSRS HD	WB4QHF	224.140	-	T131.8	☺
PICKENS/SASFR MT	W4IT	224.320	-		☺
SUMTER	W4GL	224.120	-		☺
SUMTER/SHAW	W4VFR	224.660	-		
WEST SPRINGS	KN4CW	224.440	-		☺

440 MHZ

AIKEN	AC4WW	443.400	+	T107.2	
ANDERSON	KD4HEY	442.750	+	162.2	☺
BISHOPVILLE	K4NOC	444.500	+	123.0	☺
BLUFFTON	WA4MPZ	442.675	+	100.0	☺
CHARLESTON	N4SJW	442.150	+	PROP	
CHARLESTON	KF4CDR	442.775	+	T	
CHARLESTON	N4MNH	444.300	+		
CHARLESTON	KD4PBC	444.950	+	103.5	
CLEMSON UNIV.	WD4EOG	444.625	+	T156.7	
CLOVER	KC4KPJ	443.725	+	127.3	☺
COLUMBIA	N7GZT	442.200	+	162.2	☺
COLUMBIA	KF4GHC	444.200	+	T156.7	☺
COWPENS	KE4EAN	443.625	+	T136.5	☺
EASLEY/SAS MTN	AC4RZ	444.925	+	T103.5	
FLORENCE	W4ULH	444.000	+		
FORT MILL	WZ4SC	443.475	+		☺
GAFFNEY	AI4M	442.000	+	114.8	☺
GEORGETOWN	KI4CB	444.925	+	T	☺
GREELEYVILLE	KG4AQH	441.525	+	PROP	☺
GREENVILLE	KB4PQA	442.250	+		☺
GREENWOOD	W4GWD	443.900	+	107.2	☺
GRNVLE/PARIS MT	W4IQQ	443.350	+		☺
KNIGHTSVILLE	WA4USN	441.350	+		☺
LAKE MURRAY	N4UHF	444.650	+	T	
LAKE WYLIE	W1WBT	444.050	+	T136.5	
LANCASTER	KC4AC	444.100	+		
LAURENS	KD4HLH	443.175	+	T146.2	☺
LAURENS	KF4Y	443.775	+	T141.3	
LEESVILLE	N5CWH	443.500	+	162.2	☺
LEXINGTON	N4GUP	421.250	+		
LIBERTY	N4VDE	443.975	+	PROP	
LITTLE MT	NK4W	442.975	+	T162.2	
MOUNTAIN REST	AE4PZ	442.775	+	T127.3	
MT PLEASANT	W4HNK	443.800	+	123.0	☺
MT. PLEASANT	WA4USN	441.450	+		☺
MYB BCH/BRKSVIL	N4LV	444.525	+		
MYR BCH/CONWAY	W4GS	444.675	+	T85.4	☺
MYRTLE BEACH	K2PJ	444.575	+	85.4	☺
NO. CHARLESTON	KT4YW	444.600	+		☺
ORANGEBURG	WM3O	444.975	+		
PACOLET	AG4VT	441.900	+	PROP	
PICKENS	WT4F	442.125	+		
PICKENS/CSRS HD	WB4QHF	442.400	+	T127.3	☺
ROCK HILL	KC4KPJ	444.725	+	127.3	☺
SIMPSONVILLE	AA4LB	442.725	+	T100.0	☺
SPARTANBURG	KU4ZS	442.175	+	PROP	
SUMMERVILLE	KC4ED	442.300	+	T	☺
SUMTER	WZ4O	421.250	+		
SUMTER	W4GL	444.150	+	123.0	☺
UNION	K4USC	442.100	+		☺
WALTERBORO	KG4BZN	444.550	+	123.0	☺

TENNESSEE

10 METERS

GALLATIN/BNA	W4CAT	29.640	-	T107.2	☺
GREENEVILLE	WB4NKM	29.640	-		
MEMPHIS	W4ZJM	29.620	-	T*#	
SPRINGFIELD	N8ITF	29.680	-	88.5	
TELLICO PLAINS	AJ4D	29.620	-	PROP	

6 METERS

CHATTANOOGA	K4VCM	53.350	-		☺
COOKEVILLE	WA4UCE	53.190	-	PROP	☺
DRESDEN	KG4IBW	53.130	-	T107.2	
GALLATIN	WA4BGK	53.050	-	T114.8	
GEORGETOWN	WD4OAR	53.730	-	PROP	
GREENEVILLE	N4FV	53.010	-	PROP	
GUTHRIE (TN/KY)	KA4ZKL	53.230	-		
KINGSPORT	K4GX	53.430	-	PROP	
#KNOXVILLE	WA4YON	53.250	-	UNCOR	☺
KNOXVILLE	KB4REC	53.470	-	PROP	☺
KNOXVILLE	N4OQJ	53.550	-	PROP	☺
KNOXVILLE/RACK	W4BBB	53.770	-	1000.0	☺
KNXVL/ENG MT	WB4IOB	53.150	-		☺
LAFOLLETTE	K4BGW	53.170	-	PROP	
LANEVIEW	KE4OVN	53.710	-	T107.2	
LEXINGTON	N5YKR	53.150	-	T100.0	
MARYVILLE	KC4PDQ	53.370	-		☺
MEMPHIS	WA4KOG	53.010	-		
MEMPHIS	K4RDK	53.550	-		
MEMPHIS	W4GMM	53.930	-	T107.2	☺
MONTEAGLE MTN	NQ4Y	53.450	-	114.8	☺
MORRISTOWN	KF4FTD	53.030	-	PROP	
MORRISTOWN	KQ4E	53.230	-		
MOUNTAIN CITY	K4DHT	53.330	-	PROP	
NASHVILLE	WA4BGK	53.010	-	T114.8	
NASHVILLE	N4ARK	145.210	-		☺
OAK RIDGE	WD4GYN	53.110	-		
#ROGERSVILLE	K4GX	53.750	-	UNCOR	
SEVIERVILLE	KD4PBC	53.090	-	PROP	
SPRINGFIELD	N8ITF	53.150	-	107.2	
WAVERLY	NO4Q	53.090	-		☺

2 METERS

ALAMO	WB4EDS	147.135	+		
ANDERSON CTY	KF4BVQ	146.700	-	T100.0	☺
ARNOLD A.F.B.	KC4FV	147.195	+		☺
ATHENS	KG4FZR	145.150	-	T141.3	☺
ATHENS	WA4PNI	145.310	-	T141.3	☺
BENTON	K4SIR	145.450	-	T	
BLOUNTVILLE	W4CBX	147.000	+		☺
BOLIVAR	AF4O	147.045	+		☺
BRADEN	WA4KOG	145.490	-		
BRISTOL	W4UD	146.670	-		☺
BRISTOL	WD4CYZ	146.880	-		
BROWNSVILLE	WF4Q	145.430	-	T107.2	☺
BROWNSVILLE	KD4AOK	146.655	-		
BRSTL/HOLSTN MT	K4JP	146.760	-		
BRUCETON	WF4Q	145.170	-	T107.2	☺
CARTHAGE	N4OTT	145.190	-		☺
CENTERVILLE	AG4UW	147.090	+	T123.0	
CENTERVILLE	AG4UW	147.255	+	T123.0	
CHARLESTON	KD4LDU	147.060	-	T141.3	
CHATTANOOGA	K4CMY	145.130	-		
CHATTANOOGA	W4AM	145.290	-	T118.8	
CHATTANOOGA	W4AM	145.390	-		
CHATTANOOGA	W4AM	146.610	-		
CHATTANOOGA	W4AM	146.790	-		
CLARKSVILLE	AC4RS	147.000	+	T167.9	☺
CLARKSVILLE	KF4L	147.390	+	T123.0	
CLEVELAND	W4GZX	146.925	-		☺
CLEVELAND	KD4NEC	147.105	+		☺
CLEVELAND	WD4DES	147.180	+	T118.8	☺
COLLEGEDALE	KA6UHV	147.000	+	T131.8	☺
COLLIERVILLE	WT4E	145.330	-	T107.2	
COLUMBIA	W4GGM	147.120	+	T127.3	☺
COOKEVILLE	KK4TD	145.110	-		☺
COOKEVILLE	WA4UCE	145.430	-		☺
COOKEVILLE	W4HPL	147.210	+		☺
CORNERSVILLE	WB4VXX	146.625	-	107.2	
CORNERSVILLE	KF4TNP	146.805	-	114.8	
CROSS PLAINS	K4BBN	147.345	+		☺
CROSSVILLE	W4EYJ	146.805	-	131.8	
#CROSSVILLE	W8EYU	146.865	-	UNCOR	
CROSSVILLE	KF4HNV	146.895	-	PROP	
CUMBERLAND CITY	WD4DBJ	145.330	-		☺
DANDRIDGE	WD4EGD	146.895	-	T	
DAYTON	K4PHT	147.345	+		
DAYTON/RHEA CTY	K4DPD	147.390	+		☺
DICKSON	KN4HL	147.375	+		☺
DOVER	KT4WS	145.250	-	100.0	
DOVER	N4VIH	145.410	-	T123.0	☺
DYERSBURG	W4MV	146.745	-		☺
ELIZTON/HOLS MT	KF4ZQA	145.290	-	T100.0	☺
ERWIN/PINNACLE	N4WXS	145.250	-	T	☺
ERWIN/UNICOI	KF4BRS	147.165	+		☺
FAYETTEVILLE	W4BV	147.030	+		☺
FRANKLIN	W4XS	145.150	-		
FRUITLAND	WF4Q	146.775	-	T107.2	☺
GALLATIN	W4LKZ	147.240	+	T114.8	☺
GALLATIN	WD4BKY	147.270	+	T114.8	☺
GALLATIN	W4CAT	147.300	+	T114.8	☺
GERMANTOWN	W2GLJ	145.210	-		
GRAY	WM4T	145.110	-		
GREENBRIER	WQ4E	147.075	+	T107.2	☺
GREENEVILLE	W4WC	145.390	-		
GREENEVILLE	N4FV	147.060	+	186.2	
GREENFIELD	KE4OVN	145.350	-	107.2	
GRNVL/VIKING MT	K4MFD	145.410	-	T173.8	☺
GTLBG/COVE MTN	WA4KJH	146.850	-	T127.3	
HARRIMAN	KA4QYI	146.640	-	T100.0	☺
HARRIMAN	KC4WHL	146.745	-		
HENDERSON	K4TC	147.105	+	T	☺
HOWENWALD	K4TTC	146.895	-	100.0	☺
HUNTINGDON	KB4YTM	146.835	-		
JACKSON	KF4SC	145.310	-		☺
JACKSON	WF4Q	147.210	+	PROP	☺
JACKSON	WB0TMC	147.270	+		
JAMESTOWN	K4NLP	147.090	+	T100.0	☺
JASPER	KD4XV	145.190	-	T127.3	☺
JOHNSON CITY	W4ABR	146.790	-		☺
JOHNSON CITY	KE4FH	147.270	+		☺
JONESBOROUGH	WD4OBW	146.925	-		☺
KNGSPT/BAYS MT	W4TRC	146.970	-		
KNOXVILLE	WB4GBI	145.170	-		☺
KNOXVILLE	WA4TEM	145.330	-		☺
KNOXVILLE	KB4KIE	145.370	-		
KNOXVILLE	WB4YLC	145.430	-		☺
KNOXVILLE	WB4GBI	145.470	-		☺
KNOXVILLE	WB4GBI	146.625	-	T100.0	☺
KNOXVILLE	KC4ROG	146.910	-	T	
KNOXVILLE	WB4GBI	146.940	-		☺
#KNOXVILLE	KD4CWB	147.000	-	UNCOR	
KNOXVILLE	WB4GBI	147.075	+		☺
KNOXVILLE	KD4CWB	147.195	+	PROP	
KNOXVILLE/RACK	W4BBB	145.210	-	T100.0	☺
KNOXVILLE/RACK	W4BBB	147.300	+	T100.0	☺
KNXVL/ENG MT	WB4IOB	146.730	-		☺
LAFAYETTE	KC4ECD	145.310	-	T151.4	☺
LAFOLLETTE	KA4OAK	145.130	-		
LAFOLLETTE	K4BGW	146.670	-		
LAFOLLETTE	KA4OAK	147.360	+		
LAKE CITY	WB4OAH	146.820	-		
LAVERNE	W4CAT	145.230	-		☺
LAWRENCEBURG	W4RDM	146.655	-	T	
LEBANON	W4LYR	147.105	+	T100.0	☺
LIVINGSTON	W5BAK	147.045	+		☺
MANCHESTER	W4UOT	146.700	-	T114.8	☺
MARTIN	W4UTM	146.625	-	T107.2	
MARYVILLE/ALCOA	W4OLB	146.655	-		☺
MAYNARDVILLE	KB4KIE	145.230	-		
MCEWEN	NO4Q	147.225	+		☺
MCMINNVILLE	WD4MWQ	146.970	-		
MCMINVL/SHT MT	WB4LHO	145.490	-		
MCNAIRY	WF4Q	147.075	+	T107.2	☺
MEDINA	WA4RWK	146.970	-		
MEMPHIS	KF4ATY	145.130	-	T107.2	☺
MEMPHIS	K0JXI	145.150	-		
MEMPHIS	N4ER	145.250	-	T146.2	☺
MEMPHIS	K5FE	145.410	-	T107.2	
MEMPHIS	WA4KOG	145.450	-		
MEMPHIS	WB4KQQ	146.640	-		
MEMPHIS	KE4LFZ	146.730	-	T107.2	☺
MEMPHIS	W4KIB	146.790	-	T107.2	
MEMPHIS	W4BS	146.820	-	T	
MEMPHIS	WA4KOG	146.850	-		
MEMPHIS	WA4KOG	146.880	-		
MEMPHIS	N4BSM	146.940	-	T107.2	
MEMPHIS	W4ZJM	147.000	-	T*#	
MEMPHIS	W4EM	147.030	+	T107.2	☺
MEMPHIS	WA4MQQ	147.060	+		☺
MEMPHIS	W4GMM	147.090	+	T107.2	☺
MEMPHIS	N4WAH	147.120	+	T107.2	
MEMPHIS	WA4KOG	147.180	+		
MEMPHIS	WA4ADT	147.300	+	107.2	
MEMPHIS	W4BS	147.360	+	T107.2	
MONTEAGLE MTN	NQ4Y	145.410	-	T114.8	☺
MORGAN COUNTY	WD4ORB	147.330	+	T82.5	☺
MORRISTOWN	KQ4E	145.450	-		
MORRISTOWN	KQ4E	147.030	+		☺
MORRISTOWN	WB4OAH	147.225	+		

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . continue

TENNESSEE REPEATERS CONTINUE

#MORRISTOWN	KQ4E	147.390	+	UNCOR	
MOSCOW	KF4OID	145.110	-	107.2	☺
MOUNTAIN CITY	KF4RBR	145.470	-	103.5	☺
#MT PLEASANT	KF4GHD	145.450	-	UNCOR	☺
MURFREESBORO	WB4LHO	145.170	-		
NASHVILLE	KC4WPS	145.130	-	T114.8	
NASHVILLE	N4ARK	145.210	-		☺
NASHVILLE	N4ARK	52.525	+		☺
NASHVILLE	WR3S	145.370	-		☺
NASHVILLE	N4ARK	145.470	-		☺
NASHVILLE	WA4PCD	146.610	-	T	
NASHVILLE	AF4TZ	146.640	-	T114.8	☺
NASHVILLE	AF4TZ	146.670	-	T114.8	☺
NASHVILLE	WA4PCD	146.760	-	T114.8	
NASHVILLE	W4SQE	146.790	-	T100.0	☺
NASHVILLE	W4AY	146.850	-	T114.8	
NASHVILLE	WA4PCD	146.880	-	T	
#NASHVILLE	NT4L	146.955	-	UNCOR	
NASHVILLE	KC4PRD	146.985	-		☺
NASHVILLE	AF4TZ	147.015	+	T	☺
NASHVILLE	K4AYN	147.045	+		
NASHVILLE	K4ZGA	147.180	+	T114.8	
NASHVILLE	AF4TZ	147.360	+	T	☺
NASHVILLE WEST	WA4PCD	147.150	+	T114.8	
NASHVL/FAIRVIEW	N4ARK	145.110	-	151.4	☺
NOLENSVILLE	WD4JYD	145.350	-	114.8	☺
OAK RIDGE	W4SKH	146.880	-		☺
OAK RIDGE	W4SKH	146.970	-		☺
OAK RIDGE	W4SKH	147.120	+	T82.5	☺
OAK RIDGE	K4EAJ	147.150	+	T82.5	☺
OAKFIELD	WA4BJY	147.390	+	T	
ONEIDA	KB4PNG	145.350	-	PROP	
#ONEIDA	KB4PNG	146.820	-	UNCOR	
PARIS	KC4YLL	147.165	+	T114.8	
PARIS	K4KLX	147.360	+		
PETROS/FRZ HD MT	KJ4SI	147.255	+		☺
PIGEON FORGE	KD4CLA	145.270	-	T100.0	☺
PIKEVILLE	KF4JPT	147.285	+		☺
PULASKI	WD4RBJ	147.330	+	100.0	☺
PULASKI/MUSIC MT	W4JVO	146.775	-		
PURYEAR	WA4CEX	147.165	+		
RAMER	WB4MMI	146.700	-	T107.2	☺
RCKWD/MT ROSVLT	KE4RX	147.015	+		☺
#RICHLAND	KF4TNP	147.390	+	UNCOR	
RIDGETOP	K4DXC	145.290	-	114.8	☺
RIPLEY	KE4NTL	145.230	-	T100.0	☺
ROGERSVILLE	KD4HZN	147.315	+	T114.8	
SALTILLO	KB4JUB	146.715	-		
SARDIS	AF4OQ	147.195	+	T94.8	
SELMER	WB4MMI	146.805	-	T107.2	☺
SHELBYVILLE	N4VFB	147.060	+		
SHILOH	WF4Q	145.290	-	T107.2	☺
SHORT MTN	W4YXA	146.910	-		
SPARTA	N4ARK	147.315	+	T123.0	☺
SPARTA/WHITE	KR4BT	147.165	+	T123.0	☺
TELLICO PLAINS	KE4VQM	147.315	+	T141.3	☺
TRENTON	KN4KP	146.865	-		
UNION CITY	WA4YGM	146.700	-		
UNION CITY	WF4Q	147.015	+	T107.2	☺
WALLAND	KF4ARH	146.685	-	T88.5	☺
WARTBURG	AA4YQ	146.745	-		☺
WATERTOWN	K4EHL	146.730	-	T100.0	☺
WATERTOWN	W4LYR	146.835	-	T100.0	☺
WINCHESTER	W4UOT	146.820	-		☺

220 MHZ

BLOUNTVILLE	W4CBX	224.200	-		☺
CHATTANOOGA	K4VCM	224.780	-		
CLARKESVILLE	N4PJX	224.420	-	123.0	
CLEVELAND	KK4US	224.320	-		
CLEVELAND	W4RRG	224.920	-		☺
COALFIELD	KC4WGH	224.840	-	T88.5	☺
COLLIERVILLE	KB4YGI	224.400	-		
ERWIN	KB8FPK	224.180	-		☺
GALLATIN	W4CAT	223.980	-	107.2	☺
GALLATIN	KD4VUW	224.700	-		
GATLINBURG	W4UWH	224.620	-		
GREENBRIAR	WQ4E	224.800	-		☺
GREENBRIER	WQ4E	224.760	-		☺
GREENEVILLE	W4WC	224.900	-	T100.0	☺
GREENEVILLE	WB4NKM	224.940	-		
GRNVL/VIKING	K4MFD	224.720	-	T173.8	☺
HERMITAGE	WB4SJV	223.900	-		
JC/BUFFALO MT	KE4FH	224.780	-		☺
KNOXVILLE	WB4GBI	224.340	-		☺
KNOXVILLE	N4OQJ	224.380	-	100.0	☺
KNOXVILLE	N4KFI	224.580	-	T103.5	
KNOXVILLE	K4PCK	224.760	-		☺
KNOXVILLE/RACK	W4BBB	224.500	-	T100.0	☺
KNXVL/CROSS MT	KB4FZK	224.220	-	T100.0	☺
LAFOLLETTE	KA4OAK	224.280	-		
LAVERGNE	WR3S	224.360	-		☺
LEWISBURG	KF4TNP	224.100	-		
MEMPHIS	W4ZJM	223.940	-	T*#	
MEMPHIS	W4BS	224.420	-		
MEMPHIS	WA4KOG	224.780	-		
MORRISTOWN	N4RBB	224.400	-		
MORRISTOWN	KC4RGQ	224.640	-		
MURFREESBORO	KD4TZZ	224.600	-	123.0	☺
NASHVILLE	WR3S	224.160	-		
#NASHVILLE	KC4TFQ	224.440	-	UNCOR	
NASHVILLE	WR3S	224.460	-		
NASHVILLE	K4ZGA	224.480	-		
NASHVILLE	WR3S	224.660	-		
NASHVILLE	N4PYI	224.740	-	T100.0	☺
NASHVILLE	KC4PRD	224.840	-		☺
NASHVILLE	WA4PCD	224.940	-	T	
NEWPORT	AC4JF	224.560	-	T100.0	☺
ONEIDA	KB4PNG	224.140	-		
ROGERSVILLE	KD4HZN	224.480	-		
S. PITTSBURG	WR3S	224.760	-		
SE NASHVILLE	WR3S	224.960	-		
SEVIERVILLE	N2FUV	224.440	-	T	
SEVIERVILLE	KD4IBW	224.700	-	T100.0	
SEVIERVILLE	KD4IBW	224.800	-		
SHORT MTN.	N4PYI	224.260	-	T114.8	☺
SMITHVILLE	WR3S	223.960	-		☺
SPRINGFIELD	KO4BN	224.220	-		
SPRINGFIELD	N8ITF	224.540	-	107.2	
SWEETWATER	WD9JGI	224.900	-	T127.3	

440 MHZ

ALAMO	WB4EDS	443.750	+		
BARTLETT	K4VVM	443.700	+	T107.2	
BARTLETT	WA4PAJ	444.250	+		
BIG SANDY	W4TLB	443.600	+	114.8	☺
BLUFF CITY	KE4CCB	444.500	+	T77.0	
BRICK CHURCH	KF4TNP	443.100	+	T167.9	
CASTALIAN SPRING	KE4SWV	442.750	+	PROP	
CENTERVILLE	AG4VW	443.700	+	PROP	
CENTERVILLE	AG4UW	444.700	+	T107.2	
CHAT/MNTLAKE MT	KD4UWA	444.875	+	T156.7	
CHAT/WALDEN	AF4ZJ	442.425	+		
CHATT/HIXSON	N4WT	442.900	+		☺
CHATTANOOGA	WJ9J	442.025	+	T	☺
CHATTANOOGA	WJ9J	442.150	+		☺
CHATTANOOGA	KT4OL	443.125	+	PROP	☺
CHATTANOOGA	KT4OL	443.125	+	PROP	☺
CHATTANOOGA	WB4LRD	443.550	+		
CHATTANOOGA	KD4HII	443.900	+	T	
CHATTANOOGA	W4AM	444.100	+		
CHATTANOOGA	KE4LQY	444.150	+		☺
CHATTANOOGA	KD4HII	444.200	+	T	
CITY UNKNOWN	N0LOG	443.750	+	PROP	
CLARKSVILLE	KA1FFO	442.900	+	T110.9	
CLARKSVILLE	WA4BZU	444.325	+	T107.2	
CLARKSVILLE	KF4GP	444.950	+	T167.9	
CLEVELAND	WD4DES	442.250	+	T118.8	☺
CLEVELAND	KD4NED	442.450	+	PROP	
CLEVELAND	W4GZX	444.275	+		☺
COLLEGEDALE	KA6UHV	443.575	+	T131.8	☺
COLLIERVILLE	KA7UEC	443.300	+	107.2	☺
COLLIERVILLE	KA7UEC	443.625	+	T107.2	☺
COLLIERVILLE	WT4E	444.625	+	T107.2	
COLUMBIA	W4RDM	442.725	+		
COLUMBIA	WA4AKM	444.925	+	T107.2	
CONCORD	KA4BNI	442.675	+	T107.2	☺
COOKEVILLE	WA4UCE	442.300	+	107.2	☺
COOKEVILLE	K4DAV	444.500	+	PROP	
COOKEVILLE	NQ4Y	444.550	+	T107.2	☺
COOKEVILLE	WS4S	444.600	+	T107.2	
CROSSVILLE	W4EYJ	444.950	+	T118.8	
CUMBERLAND FU	KG4CEO	442.375	+	T107.2	☺
DAYTON	KJ4BJ	442.075	+		☺
DEASON	WA4AWI	443.350	+	T107.2	
DECATUR	KE4MBR	442.725	+	PROP	
DOVER	N4VIH	444.925	+		☺
DRESDEN	KA4BNI	442.150	+	T107.2	☺
ETOWAH	KF4CFO	442.275	+	141.3	☺
EVA	AD4QG	443.625	+		
FRANKLIN	N4ULM	443.850	+		
FRANKLIN	WA4AKM	444.725	+	T107.2	
GALLATIN	WD4BKY	444.000	+	T	☺
GALLATIN	WD4BKY	444.350	+	T114.8	☺
GALLATIN	W4CAT	444.450	+	T107.2	☺
GALLATIN	WA4AKM	444.775	+	T107.2	
GATLBG/COVE MT	WA4KJH	443.300	+	T127.3	
GATLINBURG	KD4PBC	443.150	+	PROP	
GERMANTOWN	W2GLJ	444.175	+		☺
GOODLETTSVILLE	KC4PRD	443.125	+	107.2	☺
GRAY	WM4T	442.200	+	T100.0	
GREENBRIER	WQ4E	444.250	+		☺
GREENEVILLE	W4WC	443.200	+	100.0	
GREENEVILLE	K4MFD	444.200	+	T173.8	☺
GREENEVILLE	WB4NKM	444.650	+	T100.0	
GREENEVILLE	K4GX	444.950	+	PROP	
GREENVILLE	N4FV	442.700	+	PROP	
HARRIMAN	KC4WHL	442.875	+	T136.5	
HARRIMAN	K4CRS?	444.025	+		
HENDERSON	KE4PFW	442.275	+		
HENDERSON	KU4RT	442.575	+		
HENDERSON	K4TC	444.750	+	T	☺
HICKORY VALLEY	KA4JXT	443.125	+	107.2	☺
HIXSON	KF4VWJ	444.750	+	PROP	
HOHENWALD	K4TTC	442.000	+		☺
HOHENWALD	WB4NNX	444.850	+	T100.0	☺
HORNBEAK	KA4BNI	442.400	+	T107.2	☺
HUNTINGDON	KB4YTM	444.375	+		
JACKSON	KA4BNI	442.425	+	T107.2	☺
JACKSON	KE4CES	442.900	+	T114.8	☺
JACKSON	WB0TMC	444.725	+	T107.2	
JAMESTOWN	KC4MJN	443.625	+	T100.0	☺
JASPER	KD4XV	442.050	+	T127.3	☺
JEFFERSON CITY	KD4TUD	444.625	+	T	
JOHNSON CITY	KE4FH	444.100	+		☺
JOHNSON CITY/BUF	WD4ATV	421.250	+		☺
KNOXVILLE	WB4HAP	442.500	+	T103.5	☺
KNOXVILLE	N4UAG	443.025	+		
KNOXVILLE	KA4AZQ	443.075	+	PROP	
KNOXVILLE	KD4CWB	443.500	+	T	
KNOXVILLE	KA4AZQ	443.800	+	T100.0	
KNOXVILLE	KD4OBX	443.950	+		☺
KNOXVILLE	KD4CWB	444.000	+	PROP	
KNOXVILLE	KC4NNN	444.175	+	T	
KNOXVILLE	WB4GBI	444.300	+		☺
KNOXVILLE	KB4KSL	444.325	+		
KNOXVILLE	KC4NNN	444.425	+	T	
KNOXVILLE	KD4IBW	444.525	+	T100.0	
KNOXVILLE	KD4TZD	444.925	+		☺
KNOXVILLE/RACK	W4BBB	444.575	+	T100.0	☺
LAFAYETTE	KC4ECD	444.125	+	T107.2	☺
LAFOLLETTE	KB4OTK	443.700	+		☺
LAKE CITY	WD4LUR	442.800	+	T100.0	☺
LANEVIEW	KE4OVN	443.850	+	T107.2	
LAVERGNE	WR3S	443.975	+	T	
LEBANON	KW4LS	443.000	+	PROP	
LEBANON	WA4AWI	443.275	+	T107.2	
LEBANON	W4LYR	443.575	+	T100.0	☺
LEBANON	WA4AXH	444.275	+	T	
LEWISBURG	KF4TNP	442.100	+	107.2	
LEWISBURG	KG4JJB	444.075	+	107.2	
LEXINGTON	KA4BNI	442.075	+	T107.2	☺
LEXINGTON	N5YKR	442.925	+	PROP	
LORETTO	KF4OCK	442.875	+	203.5	
MARYVILLE	K4BTL	442.000	+		
MARYVILLE	KC4PDQ	444.075	+	100.0	☺
MARYVILLE	KF4VDX	444.700	+	PROP	
MARYVILLE	KE4FGW	444.825	+	T100.0	☺
MCEWEN	KE4KNZ	443.925	+	T	☺
MCKENZIE	KD4KPV	443.875	+		
MCMINNVILLE	WD4MWQ	444.850	+	T	
MCNAIRY	WF4Q	444.550	+	T107.2	☺
MEDINA	WA4BJY	442.050	+		
MEMPHIS	W4GMM	442.175	+	T107.2	☺
MEMPHIS	NU5O	442.575	+	77.0	☺
MEMPHIS	WB4EPG	442.625	+		
MEMPHIS	WF4G	442.825	+		
MEMPHIS	W4ZJM	443.000	+	T*#	
MEMPHIS	KA4JXT	443.100	+	T107.2	☺
MEMPHIS	KA4JXT	443.125	+	T	☺
MEMPHIS	W4BS	443.200	+	T107.2	
MEMPHIS	WA4QWW	443.400	+		
MEMPHIS	N4ER	443.950	+	T	☺
MEMPHIS	K4RDK	444.025	+		
MEMPHIS	KF4ATY	444.075	+	107.2	☺
MEMPHIS	KA4JXT	444.100	+	T	☺
MEMPHIS	KA4JXT	444.125	+	T	☺
MEMPHIS	WA4KOG	444.400	+		
MEMPHIS	N4WAH	444.500	+	T	
MEMPHIS	K0JXI	444.800	+		
MEMPHIS	K5FE	444.825	+	107.2	
MEMPHIS	K7AG	444.850	+	T107.2	
MEMPHIS	WB4NNE	444.950	+		
MILAN	WD4PAX	442.100	+		☺
MONTEAGLE MT.	NQ4Y	441.250	+		☺
#MORRISTOWN	KD4LP	444.800	+	UNCOR	
MORRISTOWN	KQ4E	444.975	+	T	
MOUNTAIN CITY	K4DHT	443.925	+	T103.5	☺
MT JULIET	N4PYI	444.400	+	T	☺
MT JULIET	N4PYI	444.750	+	T156.7	☺
MT PLEASANT	KG4GCZ	443.175	+	107.2	
MURFREESBORO	KD4TZZ	441.875	+	107.2	☺
NASHVILLE	AF4TZ	421.250	+		☺
NASHVILLE	K1YJ	442.500	+	T123.0	☺
#NASHVILLE	WB4PUB	443.050	+	UNCOR	
NASHVILLE	KE4PJW	443.450	+	PROP	☺
NASHVILLE	W1ARN	443.725	+	T107.2	☺
NASHVILLE	N4PYI	444.050	+	T107.2	☺
NASHVILLE	AF4TZ	444.150	+	T107.2	☺
NASHVILLE	N4ARK	444.200	+	T	☺
NASHVILLE	N4ARK	444.225	+	T114.8	☺
NASHVILLE	WA4BZU	444.300	+	T107.2	
NASHVILLE	WA4BGK	444.525	+	T107.2	
NASHVILLE	WA4PCD	444.550	+		
NASHVILLE	WA4WCK	444.575	+	T	
NASHVILLE	WA4TOA	444.625	+	T107.2	
NASHVILLE	WA4PCD	444.675	+	T	
NASHVILLE	N4PYI	444.800	+	T110.9	☺
NASHVILLE	WA4AKM	444.875	+	T107.2	
NASHVILLE	WA4AKM	444.975	+	T107.2	
NOLENSVILLE	WA4AXH	443.650	+	T	
OAK RIDGE	K4EAJ	444.400	+	T82.5	☺
OAKFIELD	WA4BJY	442.200	+	T	
ONEIDA	KT4PN	442.825	+		
PALMER	N4ZKR	444.700	+	PROP	☺

SYMBOLS: ☺ = Full Member SERA T=Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

TENNESSEE REPEATERS CONTINUE

PARIS	KC4YLL	442.950	+	123.0	
PARIS	AD4LR	443.675	+		
PIGEON FORGE	KD4CLA	444.350	+	T156.7	☺
PROSPECT	WA4AUX	444.600	+	T118.8	
PULASKI	WD4RBJ	442.150	+	118.8	☺
RAMER	WB4MMI	444.900	+	T	☺
RCKWOOD/OZONE	WJ9J	442.225	+		☺
ROCKWOOD	KA4WJS	443.975	+		
ROGERSVILLE	K4GX	443.350	+	T	
SELMER	KA4BNI	442.800	+	T107.2	☺
SEVIERVILLE	KD4IBW	443.675	+	T100.0	
SEVIERVILLE	N4CKB	444.725	+	T123.0	☺
SHELBYVILLE	WA4PZN	442.700	+	T	
SHELBYVILLE	KC4KRM	443.825	+		
SHRT MT/MURFREB	W4CAT	444.650	+	T107.2	☺
SMITHVILLE	N4PYI	444.825	+	T107.2	☺
SODDY DAISY	WJ9J	444.450	+		☺
SPARTA	KR4BT	444.375	+	123.0	☺
SPENCER	KA4MHJ	443.775	+	123.0	☺
SPRINGFIELD	N8ITF	442.600	+	107.2	
SUMMITVILLE	N4ZKR	444.475	+	T107.2	☺
SWEETWATER	KG4KIJ	443.725	+	PROP	
TRI-CITIES	KD4PBC	443.150	+	PROP	
WATERTOWN	W4LYR	444.900	+	T100.0	☺
WAVERLY	NO4Q	442.225	+	110.9	☺
WHITE HOUSE	W4KOC	443.900	+	T107.2	
WHITE OAK MT	WD4OAR	442.925	+	100.0	☺
WINCHESTER	W4UOT	443.950	+	T107.2	

900 MHZ

LEWISBURG	KF4TNP	920.500	-		
MORRISTOWN	KQ4E	920.800	-		
NASHVILLE	K4ZGA	923.250	-		

1270 MHZ

LEWISBURG	KF4TNP	1285.300	-		
MEMPHIS	N4HKS	1292.000	-		
NASHVILLE	WA4AKM	1284.400	-		
NASHVILLE	K1YJ	1286.000	-	T88.5	☺
NASHVILLE	KD4EEW	439.250	+		
SMITHVILLE	WA4AKM	1286.500	-		

ATV REPEATERS

#JOHNSON CITY	WB4SQC	442.050	+	UNCOR	☺

VIRGINIA

10 METERS

FANCY GAP	KE4QOX	29.660	-	T123.0	☺
NEWPORT NEWS	W4CM	29.600	+		
STERLING PARK	KD4DN	29.680	-		

6 METERS

ALEXANDRIA	W4HFH	53.130	-		
AMELIA	WB3R	53.390	-		
BALD TOP MT	AD4CG	53.910	-		
BEDFORD/THNDR	N4TZE	53.770	-	PROP	
BEDFRD/THAX MT	N4CH	53.150	-		☺
BLUEFIELD	N8RIG	53.370	-	PROP	
BULLRUN	K8GP	53.450	-		
CHESTERFIELD	KD4SUU	53.430	-		
DANVILLE(DCC)	WB4GJG	53.130	-	T	
FANCY GAP	WA4CQK	53.290	-	T100.0	☺
GATE CITY	N4WWB	53.210	-		☺
GUM SPRING	KB4MIC	53.070	-	203.5	☺
HAMPTON	WA4OHX	53.890	-		
LEXNGTN/ROCK MT.	KI4ZR	53.010	-		☺
LYNCHBURG	KE4KEH	53.570	-	103.5	☺
MCCLEAN	K6LEW	53.370	-		
NEWPORT NEWS	KT4QW	53.250	-	T	☺
PEARISBURG	KE4JYN	53.470	-	T107.2	☺
RICE	KE4SFU	53.170	-		☺
ROANOKE	N4CH	53.250	-		☺
ROANOKE/POOR MT	WB8BON	53.090	-		☺
ROCKY MT/FERRUM	WD4KZK	53.270	-	T107.2	☺
VESTA	N4GBO	53.430	-	PROP	
WHITE TOP MTN	KB4YFV	53.650	-		

2 METERS

ABINGDN/BRMLY MT	K4JP	146.610	-		
ABINGDON	NM4L	147.345	+	T103.5	☺
ACCOMAC	K4BW	147.255	+	T156.7	☺
ALEXANDRIA	K4US	146.655	-		
ALEXANDRIA	W4HFH	147.315	+		
ALTAVISTA	WA4ISI	146.655	-		☺
AMELIA	WB3R	145.190	-		
AMHERST	K4CQ	145.490	-	T136.5	☺
ARLINGTON	WB4MJF	145.150	-		
ARLINGTON	WB4MJF	145.470	-		
ARLINGTON	KF4JPC	146.625	-		
BEDFORD	N4CH	145.230	-		☺
BEDFORD	WB4JBJ	147.105	+		☺
BEDFRD/APL ORCH	WA1ZMS	146.685	-	T100.0	☺
BIG "A" MTN	KD4TC	146.805	+	T103.5	☺
BLACKSBURG	W9KIC	146.715	-		☺
BLAND	N4AZJ	145.350	-	T103.5	☺
BLUEFIELD	KD8XK	145.250	-	T100.0	☺
BLUEFIELD	W8MOP	145.490	-		
BLUEFIELD/ONEIDA	WZ8E	146.955	-	100.0	☺
BLUEMONT	WA4TSC	147.300	+		
BOYDTON	KD4ZTK	147.240	+		
CARBO	KK4MW	147.075	-	PROP	
CHARLOTTESVILLE	WA4TFZ	146.760	-	T151.4	☺
CHARLOTTESVILLE	WA4TFZ	146.925	-	T151.4	☺
CHESAPEAKE	W4CAR	146.610	-		☺
CHESAPEAKE	N4SD	146.790	-		
CHESAPEAKE	W4CAR	146.820	-	T162.2	☺
CHESTERFIELD	KD4KWP	145.310	-		☺
CHESTERFIELD	KA4CBB	147.360	+		☺
CLINCHCO	KB4RFN	147.150	+	T88.5	
#CLINCHCO	WD4CYZ	147.255	+	UNCOR	
COEBURN	AD4OV	145.430	-	103.5	☺
COLONIAL HEIGHTS	KE4EUE	145.390	-	PROP	☺
COVINGTON	WA4HTI	146.805	-		☺
CULPEPER	AF4CY	145.410	-		
CULPEPER	W4CUL	147.120	+		
DANVILE/WHT OAK	K4AU	146.700	-	107.2	☺
DANVILLE(DCC)	WB4GJG	146.925	-	T107.2	
DUBLIN	W4CBM	146.670	-		☺
DULLES AIRPORT	W4DLS	145.310	-		
EASTVILLE	KC4KMY	147.345	+	T156.7	☺
ELK CRK/IRON MT	N4MGQ	147.240	+	T107.2	
ENON	WB4VWR	147.060	+	T107.2	
FAIRFAX	K4KXK	146.790	-		
FANCY GAP	NC4BL	146.970	-	T100.0	☺
FARMVILLE	KE4ZBH	145.330	-		
FARMVILLE	KE4ZBH	146.910	-		
FARMVILLE	N4CFA	146.955	-	T136.5	☺
FINCASTLE	W4WIC	146.640	-		☺
FOREST	AG4AN	146.775	-	PROP	
FRANKLIN	W4LG	147.300	+	T131.8	☺
FREDERICKSBUR	K4TS	147.015	+		
GALAX/BRIRP MT	W4BRC	147.090	+		☺
GARRISONVILLE	N4NW	145.270	-		
GATE CITY	N4WWB	146.820	-	T	☺
GLOUCESTER	W4HZL	145.370	-	T	☺
GOOCHLAND	N4TZE	147.090	+		
GREENBAY	K4ARO	145.150	-		
GRUNDY	K4HWQ	147.315	+		
GRUNDY/BIG A MT	KK4EH	146.835	-		☺
GUM SPRING	WB4IKL	147.270	+		☺
HAMPTON	WA4OHX	145.490	-		
HAMPTON	W4QR	146.730	-		
HAMPTON	KA4VXR	147.225	+	T136.5	
HARRISONBURG	N4YET	145.130	-		
HARRISONBURG	N4RAG	146.895	-		
HARRISONBURG	N4RAG	147.225	+		
HARRISONBURG	N4YET	147.315	+		
HIGH KNOB MT	K4QZJ	145.210	-		
JARRATT I-95	K4SVA	146.625	-	T100.0	☺
KILMARNOCK	W4GSF	146.835	-	PROP	☺
KINGS CROSSING	N5GQD	147.150	+		
LEXINGTON	KI4ZR	147.300	+	131.8	☺
LEXNGTN/ROCK MT.	KI4ZR	147.330	+		☺
LURAY	KE4JSV	147.030	+		
LYNCHBURG	KC4RBA	145.370	-	186.2	☺
LYNCHBURG	W4WWQ	146.610	-	136.5	☺
LYNCHBURG	AB4M	147.015	-	T131.8	☺
LYNCHBURG	WA4RTS	147.195	+	T136.5	☺
MANASSAS	W4OVH	146.970	-		
MARION	N4QLF	146.640	-	T103.5	
MARTINSVILLE	KF4KVG	147.285	+	T107.2	☺
MCLEAN	W4CIA	147.210	+		
MECHANICSVILLE	W4TTL	146.805	-	PROP	☺
MONTEREY	WD4ITN	147.180	+	T100.0	☺
MONTPELIER	KQ4RH	145.250	-	T	☺
MOUNTAIN LAKE	WZ8E	146.865	+	110.9	☺
MT.LAKE/BALD KNB	K4TUE	146.910	-	107.2	☺
NASA LANGLEY	KG4NJA	146.670	-	173.8	
NEWMARKET	W3MMC	146.625	-		
NEWPORT NEWS	W4MT	145.230	-	T100.0	☺
NEWPORT NEWS	W4CM	147.165	+		
NORFOLK	WA4ZUA	145.170	-	136.5	
NORFOLK	W4VB	145.330	-		☺
NORFOLK	KF8PT	146.700	-	PROP	
NORFOLK	AD4ZK	147.075	+		
NORTON	KF4VDF	146.865	-	T103.5	☺
NORTON/HIGH KNB	K4AXO	147.015	-	T88.5	
PAGECO	KD4DDI	146.670	-		
PATRICK SPRINGS	WG8S	147.120	+	T107.2	☺
PEARISBURG	N4AZJ	147.135	+	T100.0	☺
PEARISBURG	W4NRV	147.375	+	T100.0	☺
PETERSBURG	KE4SCS	146.985	-	T127.3	☺
PETERSBURG	K4ARO	147.390	+		
PKS KB/PULASKI	N4NRV	147.180	+	T103.5	☺
PORTSMOUTH	W4POX	145.390	-	PROP	
PORTSMOUTH	W4POX	146.850	-		☺
QUANTICO	#W4NFR	147.345	+		
RADFORD/RINER	N3ZE	145.150	-		☺
RICHMOND	K4YPE	145.110	-		☺
RICHMOND	W4SQT	145.430	-		☺
RICHMOND	WB4QEY	146.640	-		
RICHMOND	W4RAT	146.880	-		☺
RICHMOND	W4ZA	146.940	-		☺
RICHMOND	WA4JST	147.030	-		
RICHMOND	KC4VDZ	147.135	+	T107.2	☺
ROANOKE	N2EDE	145.210	-	107.2	☺
ROANOKE	N4AP	146.940	-		
ROANOKE/POOR MT	K4ARO	145.390	-	T107.2	
ROANOKE/POOR MT	K4ROA	146.745	-	T107.2	☺
ROANOKE/POOR MT	W4CA	146.985	-		
ROANOKE/POOR MT	KB4QWO	147.270	+		☺
RUSTBURG	N4UTN	145.290	-	T	☺
RUSTBURG/LONG MT	N4UTN	146.835	-	T173.8	☺
SALEM	WA4V	146.880	-		
SALUDA	AA4HQ	145.450	-		☺
SMITHFIELD	WT4RA	147.195	+	T100.0	☺
SOUTH BOSTON	KF4LWH	145.350	-		
SOUTH BOSTON	KF4AGO	147.060	-		
SOUTH HILL	N4ZCM	145.470	-		
SPOTSYLVANIA	K4MQF	146.775	-		
STAUNTON	KD4KAU	145.450	-	T131.8	
STAUNTON	KD4WWF	146.700	-	T131.8	
STAUNTON	WA4ZBP	146.850	-	T131.8	
STAUNTON	W4WRN	146.970	-		
STAUNTON/EL.KB	KE4CKJ	147.045	+	T131.8	☺
STERLING	WA4TXE	146.700	-		
STUARTS DRAFT	KB4OLM	147.360	+		
SUFFOLK	W4LG	147.000	-	T100.0	☺
TYSONS CORNER	KF4QQP	146.910	-		
VIENNA	K4HTA	146.685	-		
VIRGINIA BEACH	WA4KXV	146.895	-		☺
VIRGINIA BEACH	WA4KXV	146.970	-		☺
VIRGINIA BEACH	WA4SBC	147.045	+		
WALKERTON	W4TTL	146.715	-		☺
WARRENTON	KB3BOI	145.350	-		
WARRENTON	NZ4N	147.165	+		
WARSAW	KA4ZIP	147.285	+		☺
WAYNESBORO	W4PNT	147.075	+		☺
WILLIAMSBURG	KF4ADM	145.410	-	127.3	
WILLIAMSBURG	K4RC	146.670	-	T	
WILLIAMSBURG	KB4ZIN	146.760	-		☺
WILLIAMSBURG	KB4ZIN	147.105	+		☺
WINCHESTER	KB3BOI	145.350	-		
WINCHESTER	W4RKC	146.820	-		
WOODBRIDGE	W4IY	147.240	+		
WYTH/WALKER MT	WB3T	146.895	-	T103.5	☺
WYTHEVILLE	WB3T	146.775	-	T107.2	☺

220 MHZ

ARLINGTON	WB4MJF	224.060	-		
ARLINGTON	WB4MWF	224.620	-		
BEDFORD	N4PLV	224.840	-		☺
BEDFRD/APL ORCH	WA1ZMS	224.180	-	T100.0	☺
BELL KNOB	WD4KHP	224.440	-		
BERRYVILLE	WD4KHP	224.400	-		
BERRYVILLE	WD4KHP	224.740	-		
BLUEFIELD	N8FWL	224.440	-	T123.0	☺
BLUEFIELD	WA8O	224.920	-		
BLUEMTN	KF4VED	224.160	-		
CHARLOTTESVILLE	N4HRV	224.140	-	T88.5	☺
CHARLOTTESVILLE	WA4TFZ	224.760	-		☺
CHESAPEAKE	W4LG	224.980	-	PROP	☺
DELTAVILLE	AA4HQ	224.900	-		☺
FAIRFAX	WB4YHD	224.100	-		
FANCY GAP	K4DQ	224.880	-	T100.0	☺
GLOUCESTER	W4GSF	224.620	-		☺
HAMPDEN-SYDNEY	W4JAS	224.200	-		
HAMPTON	WB4PVT	224.540	-	T100.0	☺
HARRISONBURG	N4YET	224.820	-		
HAYMARKET	WD4KHP	224.420	-		
HAYMARKET	WD4KHP	224.720	-		
LAKE GASTON	W4LG	224.600	-		☺
LEESBURG	N0NW	224.020	-		
LOVETTSVILLE	WB4FUJ	224.460	-		
LURAY	KE4JSV	224.360	-		
LYNCHBURG	AB4M	224.280	-		☺
MANASSAS	W4OVH	224.660	-		
MARTINSVILLE	K4RCA	224.500	-		
NORFOLK	KC4JGC	224.740	-	T100.0	
NORTON/HIGH KNB	WD4GSM	224.420	-		
PATRICK SPRINGS	WG8S	224.420	-	T103.5	☺
PEARISBURG	KQ4Q	224.860	-	107.2	
PETERSBURG	K4ARO	224.700	-		
RIDGEWAY	WS4W	224.380	-	T	
ROANOKE	N4CH	224.100	-		☺
ROANOKE/CAHAS MT	AB4EM	224.940	-		
ROANOKE/TINKER	K4YDG	224.900	-		☺
STAUNTON/EL KNOB	KE4CKJ	224.300	-	T131.8	☺
TYSONS CORNER	KM4OI	224.340	-		
TYSONS CORNER	WD4KHP	224.420	-		
WAYNESBORO	KA4RCL	224.680	-	T131.8	
WINCHESTER	N3HXT	224.220	-		
WOODBRIDGE	W4IY	224.780	-		

440 MHZ

ABINGDON	KB8KSP	442.975	+	T100.0	☺
ABINGDON	WB3T	444.025	+	PROP	☺
ACCOMACK	K4BW	444.300	+	T156.7	☺
ALTAVISTA	WA4ISI	444.425	+	100.0	☺
AMELIA	KB4YKV	443.200	+		
ARLINGTON	KD4DSX	448.625	-		
ARLINGTON	W8HNT	449.325	-		
ARLINGTON	WB4MJF	444.150	+		
ARLINGTON	K4AF	444.550	+		
BEDFORD	N4CH	444.350	+		☺

SERA REPEATER LISTINGS - BY STATE - BY CITY . . . conclude!

VIRGINIA REPEATERS CONTINUE

BEDFRD/APL ORCH	WA1ZMS	442.650	+	T100.0	☺
BEDFRD/APL ORCH	WA1ZMS	443.800	+	T100.0	☺
BELL KNOB	WD4KHP	449.825	-		
BENT MT	K4YD	443.675	+	T107.2	
BERRYVILLE	WB2KPH	447.475	-		
BIG A MTN	KB4WTP	444.875	+		☺
BLUEFIELD	W8MOP	442.450	+	PROP	
BLUEFIELD	W8MOP	444.450	+		☺
BLUEFIELD	WZ8E	444.625	+		☺
BLUEMONT	WA4TSC	449.925	-		
BLUEMONT	WA4TSC	449.925	-		
BULL RUN MT	WA3KOK	447.775	-		
CHARLOTTESVILLE	KF4UCI	442.075	+	151.4	☺
CHARLOTTESVILLE	WA4TFZ	444.250	+	T151.4	☺
#CHARLOTTEVILLE	KF4UCI	444.775	+	UNCOR	
CHESAPEAKE	W4CAR	444.000	+	T162.2	☺
CHESTERFIELD	WA3KOK	433.075	+	PROP	
CHESTERFIELD	KA4CBB	442.150	+		☺
CHESTERFIELD	WA3KOK	442.450	+	PROP	
COPPER RIDGE	KB4WTP	444.550	+	PROP	☺
COVINGTON	WA4PGI	442.250	+	T100.0	☺
DALE CITY	N8BOR	443.100	+		
DANVILE/WHT OAK	K4AU	444.700	+		☺
DANVILLE	KQ4I	443.850	+		☺
DISMAL PEAK	WB3T	443.325	+	T103.5	☺
ENON	WB4VWR	444.200	+		
ENON	W4RDF	444.275	+	T114.8	
FAIRFAX	K4HTA	448.375	-		
FAIRFAX	WD4KHP	449.775	-		
FALLS CHURCH	WB4UNB	447.425	-		
FALLSCHURCH	KF4LWJ	444.300	+		
FANCY GAP	WD4ICX	433.200	+		
FANCY GAP	WB3T	444.050	+	T103.5	☺
FANCY GAP	N4OWU	444.375	+	T107.2	☺
FANCY GAP	WA4CQK	444.900	+	PROP	☺
FANCY GAP	KD4FWS	444.925	+	100.0	
FOREST	AG4AN	442.475	+	PROP	
FOREST	WD4KQI	444.750	+		☺
FRONT ROYAL	N4MKH	449.225	-		
GASBURG	W4LG	442.000	+		☺
GATE CITY	N4WWB	444.700	+		☺
GLOUCESTER	N4XND	421.250	+		
GRETNA/SMITH MT	KD4TBC	444.075	+	T123.0	
GUM SPRING	KB4MIC	442.800	+		☺
HAMPTON	WA4OHX	443.750	+	100.0	
HAMPTON	W4QR	444.550	+	T167.9	
HARRISONBURG	N4YET	444.600	+		
HAYMARKET	KT4ER	448.325	-		
HAYMARKET	N3AUY	449.025	-		
HERNDON	N4LXI	443.000	+		
HIGHKNOB	N1TXI	447.725	-		
HILLSVILLE	KB4YFV	442.125	+	T103.5	
INDEPENDENCE	KF4ZIG	443.375	+	T103.5	☺
JONESVILLE	WB4IVB	442.575	+	T100.0	
LEXINGTON	KI4ZR	444.300	+		☺
LEXNGTN/ROCK MT.	KI4ZR	444.150	+		☺
LORTON	WD4KHP	449.725	-		
LYNCHBG/JACK MT.	KF4YI	442.400	+	T107.2	
LYNCHBRG/TOB MT	K4CQ	444.500	+	T136.5	☺
LYNCHBURG	KB4CVN	420.050	+	136.5	
LYNCHBURG	K4CQ	923.250	-		☺
LYNCHBURG	AB4FU	442.950	+	T	☺
LYNCHBURG	KC4RBA	443.450	+	186.2	☺
LYNCHBURG/T.ROW	N4IFC	442.200	+	T103.5	
MADISON	N8HON	444.400	+		
MANASSAS	W4OVH	442.200	+		
MARION	WB3T	443.125	+	T103.5	☺
MARTINSVILLE	KF4RMT	443.825	+	T107.2	
MEADOWS OF DAN	WG4R	444.250	+	T103.5	☺
NASA LANGLEY	KG4NJA	443.650	+	PROP	
NEWPORT	K4TUE	441.950	+	PROP	
NEWPORT NEWS	W4MT	442.900	+	T100.0	☺
NORFOLK	K4DA	442.950	+	PROP	
NORFOLK	AD4ZK	444.475	+	T127.3	
NORFOLK	WD4MIZ	444.675	+	T107.2	
OILVILLE	KB4MIC	444.800	+		☺
PATRICK SPRINGS	WG8S	443.175	+		☺
PATRICK SPRINGS	KC3FB	443.750	+	T77.0	
PEARISBURG	K4IJ	444.675	+	PROP	
PEARISBURG	N4AZJ	444.975	+	T103.5	☺
PETERSBURG	K4ARO	442.600	+		
PETERSBURG	WB4KZI	443.825	+		
PORTSMOUTH	W4POX	443.800	+		☺
POUND	KF4VDF	444.850	+	T103.5	☺
POWHATAN	KN4YM	443.100	+		
PULASKI	KE4CIF	442.775	+	T	☺
QUANTICO	N3QEM	447.975	-		
RICHMND/CHLTVL	N4EHJ	444.650	+		☺
RICHMOND	WA4AYB	441.600	+	PROP	
RICHMOND	KC4VDZ	442.300	+	T114.8	☺
RICHMOND	W4RAT	442.550	+	T127.3	☺
RICHMOND	AB4SF	444.850	+	T	☺
ROANOKE	K4ARO	442.600	+	T	
ROANOKE	W7CP	442.700	+	T	☺
ROANOKE	K4NRW	444.175	+	T103.5	
ROANOKE	WB3T	444.325	+	T103.5	☺
ROANOKE/MILL MT	WD4KZK	442.750	+	T107.2	☺
ROANOKE/POOR MT	W4CA	442.500	+		
ROANOKE/POOR MT	KA4IXK	442.850	+		☺
ROANOKE/READ MT	WD4KZK	444.850	+	T107.2	☺
ROANOKE/TINKER M.	WB8BON	444.925	+		☺
SILER	WA4RS	449.175	-		
SLINGS GAP	WD4KZK	444.775	+	T107.2	☺
SOUTH BOSTON	KF4AGO	443.925	+		
SOUTH BOSTON	KF4LWH	444.625	+		
SOUTH HILL	KD4MJO	443.525	+	100.0	☺
SPOTSYLVANIA	N2XHZ	447.875	-		
SPOTSYLVANIA	KD4QNA	442.700	+		
SPOTSYLVANIA	K4MQF	442.850	+		
STAFFORD	K4HR	444.450	+		
STAUNTON	WA4ZBP	444.825	+	T131.8	
STAUNTON/EL KNOB	KE4CKJ	444.100	+	T131.8	☺
STERLING	WA4TXE	442.100	+		
STUARTS DRAFT	KB4OLM	444.050	+		
TYSONS CORNER	KA3RQR	447.025	-		
TYSONS CORNER	KM4FI	443.500	+		
VESTA	KF4RMT	442.725	+	T107.2	
VIENNA	N4KOU	444.850	+		
VIRGINIA BEACH	WA4KXV	444.950	+		☺
WAYNESBORO	N3XA	426.250	+		
WHITETOP MT	KM4X	443.000	+	T103.5	☺
WILLIAMSBURG	N3ELM	443.550	+	T100.0	☺
WILLIAMSBURG	KB4ZIN	444.100	+		☺
WILLIS	W4DUM	443.875	+		
WINCHESTER	W4RKC	448.775	-	146.2	☺
WINCHESTER	W4RKC	448.775	-		
WINCHESTER	W3CSG	442.000	+		
WINTERGREEN	K4CQ	444.550	+	T136.5	☺
WOODBRIDGE	W4IY	444.900	+		
WYTHE/WALKER MT	WB3T	442.000	+	T103.5	☺
WYTHEVILLE	W4VSP	442.175	+	T103.5	☺
WYTHEVILLE	WB3T	442.525	+	103.5	☺

900 MHZ

ALEXANDRIA	WA4CCF	919.600	-		
BEDFRD/APL ORCH	WA1ZMS	921.100	-	T100.0	☺
CULPEPER	KA4DCS	919.400	-		
FANCY GAP	N4JNE	927.4875	-	PROP	☺
LYNCHBRG/TOB MT	K4CQ	921.000	-	T100.0	☺
ROANOKE/POOR MT	WD4KZK	919.500	-	107.2	☺
TYSONS CORNER	K6LEW	919.500	-		
WOODBRIDGE	KA4DCS	919.800	-		

1270 MHZ

BEDFRD/APL ORCH	WA1ZMS	1283.100	-	T100.0	☺
ROANOKE/POOR MT	N4CH	1291.020	-		☺

2.4GHz

BEDFRD/APL ORCH	WA1ZMS	2411.600	+		☺

WEST VIRGINIA

10 METERS

BECKLEY	KA8OTX	29.620	-		
BECKLEY	KE4QOX	29.680	-	T88.5	☺
CHARLESTON	WB8CQV	29.640	-	203.5	
RICHWOOD	WA8YWO	29.660	-	T100.0	

6 METERS

ALDERSON	WV8BD	53.190	-		
BECKLEY	N8FWL	53.170	-	T123.0	☺
BECKLEY	WB8YST	53.590	-	T107.2	☺
CEREDO	KC8PFI	53.870	-		
CHARLESTON	WB8YST	53.630	-	T107.2	☺
FLATWOODS	N8CQQ	53.110	-	PROP	
GASSAWAY	AB8WB	53.210	-	T123.0	
LEWISBURG	KC8LRN	53.930	-	T131.8	☺
MARMT/CHARLSTN	N8PEI	53.750	-	T141.3	
RICHWOOD	WB8YST	53.710	-	T107.2	☺
RICHWOOD	WA8YWO	53.830	-	PROP	
SHIRLEY	KB8TJH	53.310	-		
SNOWSHOE	KC8CSE	53.330	-	T156.7	

2 METERS

AMBER RIDGE	KB8NJH	147.210	+	T107.2	☺
BECKLEY	KC8AFH	146.700	-	123.0	☺
BECKLEY	N8FWL	147.360	+	T123.0	☺
BECKLEY/BOLT MT	WV8B	145.170	-	T100.0	
BECKLEY/EOC	WV8BD	145.370	-		
BECKLEY/FLAT TOP	WV8BD	146.850	-		
BECKLEY/LAYLAND	N8FCJ	145.310	-	T100.0	
BECKLEY/OAK HILL	N8FWL	145.230	-	T100.0	☺
BERKELEY SPRINGS	KK3L	146.745	-		
BIRCH RIVER	N8FMD	145.270	-	T103.5	☺
BRIDGEPORT	WB8DKM	147.120	+	T	☺
BUCKHANNON	N8FHE	145.410	-		☺
BUCKHANNON	N8ZAR	146.850	-		
BUCKHANNON	N8ZAR	147.060	+	123.0	
CAPON MT	N8YIB	147.435	-		
CHARLESTON	W8GK	145.350	-	91.5	☺
CHARLESTON	WB8YST	145.430	-	T107.2	☺
CHARLESTON	WB8CQV	146.820	-	T192.8	
CHARLESTOWN	N8EIV	146.985	-		
CLARKSBURG	N8FMD	146.685	-	T103.5	☺
CLARKSBURG	N8FMD	147.210	+	T103.5	☺
COWEN	KC8ECX	146.835	-	110.9	
DANVILLE	WB8NAM	146.685	-	T	
DAVIS	KE8MR	147.135	+	T103.5	☺
ELKINS	WJ8G	145.230	-	T103.5	☺
ELKINS	KB8BWZ	146.775	-		
FAIRMONT	W8SP	145.350	-	T103.5	
FENWICK	KD8AB	146.940	-		
FLAT TOP/WINTRPL	WV8B	146.625	-	T100.0	
FLATWOODS	N8ZPX	146.655	-	T123.0	☺
FRANKLIN	W3RUA	147.345	+		☺
FROST	N8RV	145.110	-	107.2	☺
GASSAWAY	WB8MZI	146.610	-		☺
#GASSAWAY	AB8WB	147.240	+	UNCOR	
GLENVILLE	N8OYY	145.130	-		☺
GLENVILLE	WB8WV	145.290	-		☺
GRAFTON	WD8LNB	147.375	+	118.8	☺
HARISVL/PENSBRO	WB8NSL	147.300	+	T100.0	
HARPER'SFERRY	KB3BOI	145.350	-		
HINTON	KC8CNL	147.255	+	100.0	☺
HUNTINGTON	WB8FEQ	145.210	-	162.2	
HUNTINGTON	W8VA	146.760	-	T131.8	☺
HUNTINGTON/CHAS	N8HZ	146.640	-		☺
IAEGER	N8SNW	146.655	-	T203.5	
KEYSER	N8RCG	147.390	+	123.0	☺
#LENORE	KF8HL	145.390	-	UNCOR	
LEON	WD8OHX	147.180	+		
LEWISBURG	WB8SPW	146.730	-	T100.0	
LEWISBURG	N4RAG	146.760	-	T131.8	
LEWISBURG	WV8D	147.390	+	T100.0	
LOGAN SOUTH	NV8H	147.195	+	100.0	
LOGAN/SUMERCO	KB8QXP	147.345	+		
LOGAN/WRD RK MT	KC8CPK	146.970	-		
MADISON	WB8NAM	147.120	+	T	
MARLINTON	N4RAG	147.090	+	131.8	
MARTINSBURG	WA8FSE	145.150	-		
MARTINSBURG	WB8YZV	147.255	+		
MARTINSBURG	K3MAD	147.345	+		
MCMECHEN	N8BQ	146.910	-		☺
MIDDLEBOURNE	WV8TC	147.360	+	T110.9	☺
MOOREFIELD	KD4SZR	145.190	-		
MORGANTOWN	K8LG	145.430	-		
MORGANTOWN	W8CUL	146.760	-		☺
MORGANTOWN	KE8MR	147.075	+	T103.5	☺
MT. ZION	N8LGY	145.450	-	T107.2	☺
MULLENS	KC8IT	147.030	+		
NEW MARTINSVILE	KF8LL	146.985	-		
OAK HILL	NM8T	146.790	-		☺
PARKERSBURG	WV8G	145.490	-		
PARKERSBURG	WC8EC	147.255	+		☺
PARKERSBURG	WD8CYV	147.390	+	T141.3	
PARKERSBURG (OH)	N8NBL	146.970	-		
PARSONS	K8VNQ	145.370	-	T118.8	☺
PHILIPPI	K8VE	145.150	-	103.5	☺
PINEVILLE	W8LG	147.285	+		
PRINCETON	KA8PNC	147.060	-		☺
PRINCETON	WB8NRK	147.225	+	T114.8	☺
PRINCETON/PIPEST	WD8OGY	146.925	-		
RAVENSWOOD	WD8JNU	146.670	-		☺
RED HOUSE	WV8AR	145.410	-	T123.0	☺
RICHWOOD	WB8YJJ	145.190	-	T	
RICHWOOD	AA8TH	147.015	+	T	
RICHWOOD	KB8YDG	147.150	+	T100.0	
ROCKPORT	KC8TLG	147.135	+	T123.0	
SALT ROCK	K8SA	145.110	-	T110.9	
SCOTT DEPOT	WV8AR	147.270	+	123.0	☺
SHIRLEY	KB8TJH	145.310	-	T	
SKYLINE	K7SOB	147.360	+	T127.3	
SMITHERS	NM8T	147.075	-		☺
SO. CHARLESTON	WB8CQV	146.880	-	203.5	
SPENCER	KA8AUW	147.105	+	100.0	☺
SPRUCE KNOB	N8HON	147.285	+		☺
ST.MARYS/BENS RG	WB8ECC	147.030	+		
#SUMMERSVILLE	W8FG	145.470	-	UNCOR	
TERRA ALTA	KD8ZR	147.000	+	T	☺
UNION	W8IFL	145.410	-		
WEIRTON	W8CWO	146.940	-		☺
WELCH	K8KRS	145.450	-		☺
WESTON	WD8EOM	145.390	-		
WESTON	KA8TCF	147.165	+		
WHEELING	KA8YEZ	145.190	-	156.7	
WHEELING	W8ZQ	146.760	-		☺
WILLIAMSON	WR8M	145.330	-	T100.0	☺

220 MHZ

ANSTED	N8FWL	224.840	-	123.0	☺
BECKLEY	N8FWL	224.240	-	T123.0	☺
BECKLEY - SOUTH	N8FWL	224.740	-	PROP	☺
BECKLEY - WEST	N8FWL	224.540	-	123.0	☺
BECKLEY/OAK HILL	N8FWL	224.340	-	T123.0	☺
BERKELEY SPRINGS	KA3VLG	224.700	-		
CHARLESTON	WB8YST	0	-	107.2	☺
CHARLESTON	WS8L	224.700	-	T123.0	☺
CRAIGSVILLE	KC8LRN	224.480	-	PROP	☺
FLAT TOP/WINTRPL	WV8B	224.120	-	100.0	
GREENBANK	KC8CSE	224.560	-	PROP	
HILLSBORO	KC8LRN	224.220	-	T131.8	☺
HINTON/BECKLEY	N8FWL	224.640	-	123.0	☺
#LEON	WD8OHX	223.780	-	UNCOR	
LEWISBURG	N8FWL	224.140	-	PROP	☺
LEWISBURG	KC8LRN	224.800	-	T131.8	☺
SLATY FORK	KC8LRN	224.720	-	91.5	☺

WEST VIRGINIA REPEATERS CONTINUE

SUTTON	W8COX	224.400	-	T123.0	
WILLIAMSON	WR8M	224.140	-		☺

440 MHZ

ALDERSON/SAM BLK.	N8LVE	444.400	+	T100.0	
BECKLEY	N8FWL	443.050	+	T123.0	☺
BECKLEY	N8LVE	444.125	+	T	
BECKLEY/BOLT	W8LG	443.225	+		
BECKLEY/OAK HILL	WV8B	444.800	+	100.0	☺
BECKLY/OAK HILL	KE4QOX	443.100	+	T107.2	☺
BELINGTON	N8SCS	444.900	+	141.3	☺
BERKELEY SPRINGS	WA3KOK	442.450	+		
BLUEFIELD	WZ8E	443.625	+	100.0	☺
BUCKHANNON	N8ZAR	444.250	+		
CEREDO	KC8PFI	443.600	+		
CHARLESTON	KB8QKM	442.925	+	71.9	
CHARLESTON	WS8L	443.300	+	T123.0	☺
CHARLESTON	WV8AR	444.225	+	T123.0	☺
CHARLESTON	WB8YST	444.350	+	T107.2	☺
CLARKSBURG	N8FMD	444.175	+	T103.5	☺
CRAIGSVILLE	KC8SDN	443.650	+	T123.0	
DANS MT	N8YIB	145.330	+		
DUNMORE	KC8CSE	444.275	+	123.0	
FAIRMONT	W8SP	443.875	+		
FLATWOODS	N8ZVK	444.200	+		☺
GASSAWAY	AB8WB	444.675	+	T123.0	
GILBERT	KB8PCW	442.725	+	T	
GLENVILLE	KA8ZXP	444.325	+		
HERNSHAW	WB8CQV	444.700	+	203.5	
HUNTINGTON	WA4GSS	421.250	+		
HUNTINGTON	N8HZ	443.000	+		☺
HUNTINGTON	KB8TGK	443.850	+	T88.5	
HUNTINGTON/CHAS	WB8ZER	444.850	+	T131.8	
HURRICANE	K8OJC	444.075	+		
KEYSER	N8RCG	444.125	+	103.5	☺
LEWISBURG	KF8FO	444.725	+	T103.5	
LOGAN	KE4QOX	444.900	+	T107.2	☺
MORGANTOWN	K8LG	444.700	+		
MORGANTOWN	W8CUL	444.800	+		☺
MULLENS	KC8IT	444.000	+		
OAK HILL	KA8OTX	443.800	+		
PARKERSBURG (OH)	N8ILO	444.100	+		
PENNSBORO	WB8NSL	442.850	+	T103.5	
PRINCETON	KB8UJG	443.700	+	T123.0	
RICHWOOD	K8VKB	442.275	+	123.0	
RICHWOOD	KC8SDN	443.075	+	123.0	
RICHWOOD	KC8SDN	443.375	+	T123.0	
RICHWOOD	KB8YDD	443.475	+		
RICHWOOD	KC8AUY	443.575	+	T	
RICHWOOD	KC8SDN	443.625	+	T123.0	
ROCKPORT	N8LHL	443.350	+	T123.0	
SHIRLEY	KB8TJH	444.425	+	T	
SO. CHARLESTON	WB8CQV	444.950	+	203.5	
ST. ALBANS	K8MHR	443.150	+		
WELCH	N8SNY	443.725	+		☺
WESTON	N8FIP	443.975	+		
WESTON	KA8TCF	444.600	+		
WHEELING	KB8QHO	421.250	+		

Limited FULL MEMBERS FROM NON-SERA STATES

WHEELING	KA8YEZ	443.025	+	77.0HZ	
WHEELING	N8EKT	444.975	+		

6 METERS

CONCORD, NH	KA1OKQ	53.590	-	71.9	☺

2 METERS

CONCORD, NH	KA1OKQ	147.225	+	T100.0	☺
DELAND, FL	KD4UTV	147.045	+	T103.5	☺
WINCHESTER, VA	W4RKC	146.820	-		☺

220 MHZ

CONCORD, NH	KA1OKQ	224.800	-	T103.5	☺

440 MHZ

CHESTER, PA	W3PS	443.050	+	T156.7	
CONCORD, NH	KA1OKQ	448.775	-	T82.5	☺
LINWOOD, PA	W3PS	443.000	+	156.7	
MADISON, VA	N8HON	444.400	+		☺
MCKINNEY, TX	KF5TU	442.350	+	T100.0	☺
PEMBROKE, NH	KA1OKQ	444.150	+		☺
PETERBORO, NH	KA1OKQ	443.350	+	T110.9	☺

SYMBOLS: ☺ = Full Member SERA T = Tone Accessed (plus tone freq)
# and/or UNCOR = Uncoordinated PROP = Proposed Rptr. Under Const.

SERA REPEATER INDEX LISTINGS BY FREQUENCY

10 METERS

29.6000 / 29.6000			
W4CM	NEWPORT NEWS		VA
29.52 0 / 29.6200			
KF4XH	#MACON		GA
29.5200 / 29.6200			
KQ4XL	MONROE		GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4XE	WILKESBORO		NC
WB4IUY	ZEBULON		NC
W4ZJM	MEMPHIS	*#	TN
AJ4D	TELLICO PLAINS	141.3	TN
KA8OTX	BECKLEY		WV
29.5400 / 29.6400			
KK4CZ	LOUISVILLE		KY
KB5MPW	BAY SAINT LOUIS	136.5	MS
KE4QOX	HIGH POINT	103.5	NC
W4CAT	GALLATIN/BNA	107.2	TN
WB4NKM	GREENEVILLE		TN
WB8CQV	CHARLESTON	203.5	WV
29.5600 / 29.6600			
WR4MG	WARNER ROBINS		GA
K4GRW	NEWPORT		NC
N4JEH	ROCKY MOUNT		NC
W4GL	SUMTER		SC
KE4QOX	FANCY GAP	123.0	VA
WA8YWO	RICHWOOD	100.0	WV
29.5800 / 29.6800			
AI8H	CONYERS		GA
N4BZJ	DALTON		GA
KB0Y	VALDOSTA	141.3	GA
KA4UHL	INGLE	146.2	KY
WW4DC	THOMASVILLE	88.5	NC
N8ITF	SPRINGFIELD	88.5	TN
KE4QOX	BECKLEY	88.5	WV

6 METERS

52.5500 / 51.5500			
WB4JEH	#CONYERS	151.4	GA
51.2000 / 51.7000			
WA4YNZ	#CUMMING		GA
51.4400 / 51.9400			
KC5BMJ	KINGSLAND	82.5	GA
53.0250 / 52.0250			
WB4LBR	LOUISVILLE		KY
52.5250 / 52.5250			
WW4DC	THOMASVILLE	88.5	NC
52.0100 / 53.0100			
W3LAP	COCHRAN	77.0	GA
WA4YNZ	#ROSWELL		GA
KC4QK	ASHLAND	107.2	KY
N5EKR	ELLISVILLE		MS
KE4QOX	THOMASVILLE	88.5	NC
N4FV	GREENEVILLE	100.0	TN
WA4KOG	MEMPHIS		TN
WA4BGK	NASHVILLE	114.8	TN
KI4ZR	LEXNGTN/ROCK MT.		VA
52.0300 / 53.0300			
W4WTA	AUGUSTA		GA
K4ITL	RALEIGH		NC
KF4FTD	MORRISTOWN		TN
52.0500 / 53.0500			
KC4JNN	BISKEY MT.	100.0	GA
AB5MU	NETTLETON	192.8	MS
N4JEH	ROCKY MOUNT		NC
WA4PXV	SPRUCE PINE	151.4	NC
WA4BGK	GALLATIN	114.8	TN
52.0700 / 53.0700			
WB4AEG	CARTERSVILLE	123.0	GA
KB4PTJ	WILLIAMSBURG	100.0	KY
KD4FWS	MT.AIRY/FANCY GP	100.0	NC
KB4MIC	GUM SPRING	203.5	VA
52.0900 / 53.0900			
KD4DKW	ATL/MARIETTA	151.4	GA
N4ALG	NICHOLASVILLE	103.5	KY
KF4IXW	REELSBORO	162.2	NC
K4NOC	BISHOPVILLE		SC
KD4PBC	SEVIERVILLE		TN
NO4Q	WAVERLY		TN
WB8BON	ROANOKE/POOR MT		VA
52.1100 / 53.1100			
W4GR	LAWRENCEVILLE	82.5	GA
KC4YOT	GASTONIA		NC
KD4BGD	LUMBERTON		NC
K4SER	TARBORO		NC
WD4GYN	OAK RIDGE		TN
N8CQQ	FLATWOODS		WV
52.1300 / 53.1300			
N4BZJ	DALTON		GA
N4EQT	LAWRENCEBURG	107.2	KY
W4FOT	HENDERSONVILLE	100.0	NC
KG4IBW	DRESDEN	107.2	TN
W4HFH	ALEXANDRIA		VA
WB4GJG	DANVILLE(DCC)		VA
52.1500 / 53.1500			
KA5WZY	ATLANTA		GA
K4USC	UNION		SC
WB4IOB	KNXVL/ENG MT		TN
N5YKR	LEXINGTON	100.0	TN
N8ITF	SPRINGFIELD	107.2	TN
N4CH	BEDFRD/THAX MT		VA
52.1700 / 53.1700			
WW4DC	THOMASVILLE	88.5	NC
K4BGW	LAFOLLETTE		TN
KE4SFU	RICE		VA
N8FWL	BECKLEY	123.0	WV
52.1900 / 53.1900			
W4BAD	RALEIGH		NC
KN4AS	LITTLE MOUNTAIN	156.7	SC
WA4UCE	COOKEVILLE		TN
WV8BD	ALDERSON		WV
52.2100 / 53.2100			
N1KDO	MARIETTA	79.7	GA
N4QLX	SAURATOWN MT		NC
AD4U	ORANGEBURG		SC
N4WWB	GATE CITY		VA
AB8WB	GASSAWAY	123.0	WV
52.2300 / 53.2300			
KD4BDB	WARM SPRINGS	97.4	GA
KD4JFN	PITTSBORO	107.2	NC
KA4ZKL	GUTHRIE (TN/KY)		TN
KQ4E	MORRISTOWN		TN
52.2500 / 53.2500			
KF4BMG	MARIETTA	79.7	GA
KI4D	ROCK HILL	123.0	SC
WA4YON	#KNOXVILLE		TN
KT4QW	NEWPORT NEWS		VA
N4CH	ROANOKE		VA
52.2700 / 53.2700			
KC4CBQ	HIAWASSEE	186.2	GA
KA4UHL	NANCY	100.0	KY
WD4BQW	ASHEVILLE		NC
N5CWH	LEESVILLE	162.2	SC
WD4KZK	ROCKY MT/FERRUM	107.2	VA
52.2900 / 53.2900			
K4PLM	#PINE LOG MT.	198.2	GA
KF4UAQ	LOUISVILLE		KY
KF4SXO	CHESTER		SC
WA4CQK	FANCY GAP	100.0	VA
52.3100 / 53.3100			
AB4JJ	WEST JEFFERSON	100.0	NC
K4SER	WILLIAMSTON		NC
KG4BZN	WALTERBORO	123.0	SC
KB8TJH	SHIRLEY		WV
52.3300 / 53.3300			
KD4FVI	CRAWFORD	88.5	GA
AD4CC	HIGHLAND HEIGHTS	123.0	KY
W4TLP	CLINTON		NC
K4DHT	MOUNTAIN CITY	100.0	TN
KC8CSE	SNOWSHOE	156.7	WV
52.3500 / 53.3500			
WR4AMS	DORTON		KY
WR4BEG	SOPHIA/RANDLEMAN		NC
K4VCM	CHATTANOOGA		TN
52.3700 / 53.3700			
W4ZO	MONROE	100.0	NC
KD4MYE	YOUNGSVILLE		NC
KC4PDQ	MARYVILLE		TN
N8RIG	BLUEFIELD		VA
52.3900 / 53.3900			
KA4UFM	DECATUR		GA
KF4XH	#MACON		GA
KE4RKF	WAYNESBURG	100.0	KY
AB4JJ	WEST JEFFERSON	100.0	NC
WB3R	AMELIA		VA
52.4100 / 53.4100			
WA1YYN	EFLAND	107.2	NC
KO4MZ	GVL/CSR'S HEAD	131.8	SC
52.4300 / 53.4300			
KR4OL	BOLINGBROKE		GA
N7BBW	LOUISVILLE	151.4	KY
AD4DN	WILMINGTON	88.5	NC
K4GX	KINGSPORT		TN
KD4SUU	CHESTERFIELD		VA
N4GBO	VESTA	107.2	VA
52.4500 / 53.4500			
WD4OVN	#PINE LOG MT		GA
KC5PIA	LAUREL		MS
W4UNC	CHAPEL HILL	107.2	NC
NQ4Y	MONTEAGLE MTN	114.8	TN
K8GP	BULLRUN		VA
52.4700 / 53.4700			
W5PFC	JACKSON	77.0	MS
KB4REC	KNOXVILLE		TN
KE4JYN	PEARISBURG	107.2	VA
52.5500 / 53.5500			
WB4JEH	CONYERS	151.4	GA
N4OQJ	KNOXVILLE	100.0	TN
K4RDK	MEMPHIS		TN
52.5700 / 53.5700			
KD4AOZ	WATKINSVILLE	123.0	GA
KE4LGL	LEXINGTON		KY
KE4KEH	LYNCHBURG	103.5	VA
52.5900 / 53.5900			
KF4QDS	KVILLE/HIPOINT	103.5	NC
KF4IWA	MOUNTAIN REST		SC
WB8YST	BECKLEY	107.2	WV
52.6300 / 53.6300			
AB4JJ	MT MITCHELL	100.0	NC
WB8YST	CHARLESTON	107.2	WV
51.1400 / 53.6500			
KB5MPW	BAY SAINT LOUIS	136.5	MS
52.6500 / 53.6500			
KB4YFV	WHITE TOP MTN		VA
51.2000 / 53.7100			
KE4OVN	LANEVIEW	107.2	TN
52.7100 / 53.7100			
KD4YWB	ROBBINSVILLE	167.9	NC
WB8YST	RICHWOOD	107.2	WV
51.2200 / 53.7300			
K4YC	IVEY/MACON	88.5	GA
52.7300 / 53.7300			
K4XYZ	BUCKHORN LAKE	100.0	KY
WD4OAR	GEORGETOWN	192.8	TN
52.7500 / 53.7500			
W4YWH	HIGHLAND HEIGHTS	123.0	KY
WA4PXV	AIR BELLOWS GAP		NC
W4BAD	DURHAM		NC
K4GX	#ROGERSVILLE	114.8	TN
N8PEI	MARMT/CHARLSTN	141.3	WV
52.7700 / 53.7700			
W4GL	SUMTER		SC
W4BBB	KNOXVILLE/RACK	1000.	TN
N4TZE	BEDFORD/THNDR	173.8	VA
52.7900 / 53.7900			
WR4MG	WARNER ROBINS		GA
WA4NC	BOONE	100.0	NC
52.8100 / 53.8100			
WD4KNE	#STANTON		KY
W4EBM	#FAYETTEVILLE		NC
52.8500 / 53.8500			
K4TDO	HAZARD		KY
52.8700 / 53.8700			
KC8PFI	CEREDO		WV
52.8900 / 53.8900			
KB0Y	LAKE PARK	141.3	GA
WB4HJG	LULA	82.5	GA
WA4OHX	HAMPTON		VA
52.9100 / 53.9100			
KE4ZJT	LONDON	100.0	KY
52.9300 / 53.9300			
W4GMM	MEMPHIS	107.2	TN
KC8LRN	LEWISBURG	131.8	WV
52.9500 / 53.9500			
WB4WSB	LAGRANGE		KY
52.9700 / 53.9700			
N4DAJ	MT. AIRY	100.0	NC
52.5250 / 145.2100			
N4ARK	NASHVILLE		TN

2 METERS

144.6100 / 52.5250			
N4ARK	NASHVILLE		TN
144.5100 / 145.1100			
KK4HL	AUGUSTA		GA
N4MXC	COCHRAN	107.2	GA
KR4HV	DOUGLASVILLE	88.5	GA
KC4UPE	LEESBURG	192.8	KY
KD5AXY	FLORENCE		MS
W5WA	VANCLEAVE	123.0	MS
W4PCN	KILL DEVIL HILLS	131.8	NC
N4GSM	ROBBINSVILLE	151.4	NC
KD4MYE	YOUNGSVILLE	88.5	NC
WZ4SC	FORT MILL		SC
W4GS	MYR BCH/CONWAY		SC
KK4TD	COOKEVILLE		TN
WM4T	GRAY		TN
KF4OID	MOSCOW	107.2	TN
N4ARK	NASHVL/FAIRVIEW	151.4	TN
K4YPE	RICHMOND		VA
N8RV	FROST	107.2	WV
K8SA	SALT ROCK	110.9	WV
144.5300 / 145.1300			
K4SEX	NEWNAN	156.7	GA

PLEASE NOTE

The Repeater Journal lists subtones used on repeaters ONLY if they are requested to be listed by the sponsor or owner. The listing of a subtone on any repeater does not in any way indicate it being a "closed" repeater. In most cases, the tones are used to eliminate noise problems and are listed at the owners request for users convenience.

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

WR4SG	VALDOSTA	141.3	GA
N4UL	LOUISVILLE AREA	151.4	KY
KJ4VF	MOREHEAD	100.0	KY
WB4YNF	AHOSKIE		NC
N4VL	MT. AIRY	103.5	NC
W4RNC	RALEIGH	88.5	NC
W4JAK	GREENWOOD		SC
K4JR	SUMTER		SC
K4CMY	CHATTANOOGA		TN
KA4OAK	LAFOLLETTE		TN
KF4ATY	MEMPHIS	107.2	TN
KC4WPS	NASHVILLE	114.8	TN
N8OYY	GLENVILLE		WV
144.5500 / 145.1500			
K4TWG	BACONTON		GA
W4AQL	GA TECH	167.9	GA
K4YC	IVEY/MACON	77.0	GA
KG4CCW	LOUISVILLE	141.3	KY
KY4JW	MONTICELLO		KY
AD4BI	PIKEVILLE	107.2	KY
KE5LT	PICAYUNE		MS
K2IMO	ELM CITY	88.5	NC
W4GSO	GREENSBORO	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
W4LBT	#LUMBERTON		NC
N4LWY	SUMMERTON		SC
K4USC	UNION		SC
KG4FZR	ATHENS	141.3	TN
W4XS	FRANKLIN		TN
K0JXI	MEMPHIS		TN
K4ARO	GREENBAY		VA
N3ZE	RADFORD/RINER		VA
K8VE	PHILIPPI	103.5	WV
144.5700 / 145.1700			
WA4DIW	JONESBORO		GA
W8PRH	HALLS GAP		KY
W5JWX	RAYMOND	77.0	MS
K4CCR	ANDSN MT/DENVER	88.5	NC
N4NCK	OXFORD		NC
N4JDW	WILMINGTON	88.5	NC
KY4S	AIKEN		SC
K4NOC	BISHOPVILLE	123.0	SC
WF4Q	BRUCETON	107.2	TN
WB4GBI	KNOXVILLE		TN
WB4LHO	MURFREESBORO		TN
WA4ZUA	NORFOLK	136.5	VA
WV8B	BECKLEY/BOLT MT	100.0	WV
144.5900 / 145.1900			
W4CBA	GAINESVILLE	131.8	GA
WA4EQL	JESUP		GA
WB4ULJ	PINE MT/HAMILTON		GA
KB4SQI	SALYERSVILLE	127.3	KY
K5YD	BOONEVILLE	110.9	MS
W5CJR	HATTIESBURG	136.5	MS
KA4SQN	JACKSONVILLE		NC
WA4BVW	MT MITCHELL		NC
K4GWH	RALEIGH	156.7	NC
N4OTT	CARTHAGE		TN
KD4XV	JASPER	127.3	TN
WB3R	AMELIA		VA
WB8YJJ	RICHWOOD		WV
KA8YEZ	WHEELING	156.7	WV
144.6100 / 145.2100			
KC4RRO	EASTMAN		GA
WA4EPK	FAYETTEVILLE	131.8	GA
W8PRH	LEXINGTN/GRGTWN		KY
KB5IKR	MENDENHALL	100.0	MS
K4OLC	HIGH PEAK MTN	94.8	NC
WB4TQD	TRENTON		NC
KG4LAP	SMOAKS		SC
W2GLJ	GERMANTOWN		TN
W4BBB	KNOXVILLE/RACK	100.0	TN
N4ARK	NASHVILLE		TN
K4QZJ	HIGH KNOB MT		VA
N2EDE	ROANOKE	107.2	VA
WB8FEQ	HUNTINGTON	162.2	WV
144.6300 / 145.2300			
WB4JEH	CONYERS	151.4	GA
WR4SG	CORDELE	141.3	GA
W4DRC	DALTON		GA
K4BR	WAYNESBORO		GA
W8PRH	LOUISVILLE		KY
W4KBL	PRINCETON	103.5	KY
KG4GQC	WEST LIBERTY	107.2	KY
KC5VZI	#NEW ALBANY		MS
N4VBH	BEULAVILLE		NC
W4UNC	CHAPEL HILL	107.2	NC
W4BFB	CHARLOTTE		NC
KG4AQH	GREELEYVILLE		SC
W4CAT	LAVERNE		TN
KB4KIE	MAYNARDVILLE		TN
KE4NTL	RIPLEY	100.0	TN
N4CH	BEDFORD		VA
W4MT	NEWPORT NEWS	100.0	VA
N8FWL	BECKLEY/OAK HILL	100.0	WV
WJ8G	ELKINS	103.5	WV
144.6500 / 145.2500			
N4YYD	CHATSWORTH	71.9	GA
K4YC	IVEY		GA
AD4YJ	LEXINGTON	110.9	KY
W4GG	GREENSBORO	88.5	NC
WA4USN	CHARLESTON	123.0	SC
WA4UKX	SIMPSONVILLE	123.0	SC
KT4WS	DOVER	100.0	TN
N4WXS	ERWIN/PINNACLE		TN
N4ER	MEMPHIS	146.2	TN
KD8XK	BLUEFIELD	100.0	VA
KQ4RH	MONTPELIER		VA
144.7500 / 145.2500			
KC4QLP	ELIZABETH CITY	131.8	NC
144.6700 / 145.2700			
KT4X	SANDERSVILLE	77.0	GA
KE4AIS	WALESKA/PNLG MT	100.0	GA
N4KJU	PAINTSVILLE		KY
KD4BOH	ROCKPORT	77.0	KY
N5NBG	WALLS	162.2	MS
KB5DZJ	WIGGINS	136.5	MS
K4ITL	ASHEBORO	82.5	NC
K4ROK	FARMVILLE	131.8	NC
WA4KNI	HENDSVL/BERWLW		NC
N7GZT	COLUMBIA	162.2	SC
KD4CLA	PIGEON FORGE	100.0	TN
N8FMD	BIRCH RIVER	103.5	WV
144.6900 / 145.2900			
W4IBM	ATLANTA	88.5	GA
W4DV	AUGUSTA	100.0	GA
WR4MG	PERRY	107.2	GA
AC2DC	LOUISVILLE	151.4	KY
N4VOS	STANTON		KY
WJ5L	VICKSBURG		MS
W4BFB	CHARLOTTE		NC
WN3X	COINJOCK	131.8	NC
NC4AR	HIGH POINT	88.5	NC
WA4WPD	NASHVILLE	107.2	NC
W4GS	MYRTLE BEACH	85.4	SC
KU4ZS	PUMPKINTOWN	123.0	SC
W4AM	CHATTANOOGA	118.8	TN
KF4ZQA	ELIZTON/HOLS MT	100.0	TN
K4DXC	RIDGETOP	114.8	TN
WF4Q	SHILOH	107.2	TN
N4UTN	RUSTBURG		VA
WB8WV	GLENVILLE		WV
144.7100 / 145.3100			
W4FIZ	COLUMBUS	123.0	GA
KB4JF	NASHVILLE	141.3	GA
WA4JDR	STOCKBRIDGE		GA
KC4KZT	DAVID		KY
WB5GOJ	CHATAWA		MS
KC4WPM	BAKERSVILLE		NC
N4LEX	LEXINGTON	88.5	NC
K4ITL	ROSEBORO		NC
W4IAR	BEAUFORT		SC
W4CHR	CHESTER		SC
WA4PNI	ATHENS	141.3	TN
KF4SC	JACKSON		TN
KC4ECD	LAFAYETTE	151.4	TN
KD4KWP	CHESTERFIELD		VA
N8FCJ	BECKLEY/LAYLAND	100.0	WV
KB8TJH	SHIRLEY		WV
144.7300 / 145.3300			
KF4ODQ	EASTMAN	77.0	GA
WA4OGE	JONESBORO		GA
N4XGI	ST SIMONS ISLAND	131.8	GA
KF4INN	VERSAILLES		KY
K5DMC	KILN		MS
KI4RK	EMERALD ISLE	88.5	NC
KI4RK	GOLDSBORO	100.0	NC
N4VRD	MOUNT AIRY	100.0	NC
KF4JVI	TRYON		NC
WA4DFP	BAMBERG		SC
WT4E	COLLIERVILLE	107.2	TN
WD4DBJ	CUMBERLAND CITY		TN
WA4TEM	KNOXVILLE		TN
KE4ZBH	FARMVILLE		VA
W4VB	NORFOLK		VA
WR8M	WILLIAMSON	100.0	WV
144.7500 / 145.3500			
W4DOC	ATLANTA	146.2	GA
W4GTA	LOOKOUT MT	100.0	GA
KD4MFS	OCILLA		GA
AI4HB	RADCLIFF	173.8	KY
N4DRL	BYHALIA		MS
N5ZMZ	UTICA		MS
WA4AOS	CHARLOTTE		NC
WD4JPQ	GREENVILLE	131.8	NC
KE4OVN	GREENFIELD	107.2	TN
WD4JYD	NOLENSVILLE	114.8	TN
KB4PNG	ONEIDA	77.0	TN
N4AZJ	BLAND	103.5	VA
KF4LWH	SOUTH BOSTON		VA
W8GK	CHARLESTON	91.5	WV
W8SP	FAIRMONT	103.5	WV
144.7700 / 145.3700			
AA4UA	AUGUSTA		GA
KB4IZF	JASPER	100.0	GA
W4BKM	MACON	88.5	GA
KE4YVD	RICHMOND	192.8	KY
K5IJX	HATTIESBURG	136.5	MS
N5PYQ	SOUTHAVEN	107.2	MS
N4NCK	BUTNER		NC
W4HF	N. WILKESBORO	94.8	NC
K4PPD	SHALLOTTE		NC
KB4KIE	KNOXVILLE		TN
WR3S	NASHVILLE		TN
W4HZL	GLOUCESTER		VA
KC4RBA	LYNCHBURG	186.2	VA
WV8BD	BECKLEY/EOC		WV
K8VNQ	PARSONS	118.8	WV
144.7900 / 145.3900			
K4HYB	GRIFFIN/CENAR	88.5	GA
WF4N	#CENTRAL CITY		KY
N4EQT	LAWRENCEBURG	107.2	KY
KC8FKP	SO. PORTSMOUTH	136.5	KY
KB5KGE	JACKSON		MS
NC4UC	MONROE/UCARS	94.8	NC
WB4TQD	RALEIGH	82.5	NC
KG4BZN	WALTERBORO		SC
W4AM	CHATTANOOGA		TN
W4WC	GREENEVILLE		TN
KE4EUE	COLONIAL HEIGHTS		VA
W4POX	PORTSMOUTH	100.0	VA
K4ARO	ROANOKE/POOR MT	107.2	VA
KF8HL	#LENORE		WV
WD8EOM	WESTON		WV
144.8100 / 145.4100			
W4PME	ATLANTA/BELL	100.0	GA
K4KNS	AUGUSTA		GA
WA4MXO	JACKSON		KY
KK4CZ	LOUISVILLE	151.4	KY
KC5IF	D'IBERVILLE		MS
N4XO	CHINA GROVE	136.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4USN	CHARLESTON AR		SC
N4VIH	DOVER	123.0	TN
K4MFD	GRNVL/VIKING MT	173.8	TN
K5FE	MEMPHIS	107.2	TN
NQ4Y	MONTEAGLE MTN	114.8	TN
KF4ADM	WILLIAMSBURG	127.3	VA
N8FHE	BUCKHANNON		WV
WV8AR	RED HOUSE	123.0	WV
W8IFL	UNION		WV
144.8300 / 145.4300			
K4LCI	ATLANTA		GA
WA9RNZ	JESUP	118.8	GA
AA4RI	MACON		GA
KX5E	GLOSTER	136.5	MS
KU4W	RAEFORD	100.0	NC
K4QFQ	SPARTA/GREEN MT		NC
K4JR	SUMTER	156.7	SC
WF4Q	BROWNSVILLE	107.2	TN
WA4UCE	COOKEVILLE		TN
WB4YLC	KNOXVILLE		TN
AD4OV	COEBURN	103.5	VA
W4SQT	RICHMOND		VA
WB8YST	CHARLESTON	107.2	WV
K8LG	MORGANTOWN		WV
144.8500 / 145.4500			
W4BOC	DECATUR		GA
KG4FEJ	ROCKFIELD	136.5	KY
WX5P	FULTON		MS
W5PPB	SHARON	77.0	MS
WR4AGC	DURHAM		NC
WD4LCF	GASTONIA		NC
K4GRW	NEWPORT		NC
WD4EOG	CLEMSON UNIV		SC
N7GZT	MT. PLEASANT		SC
W4ZKM	SAVANNAH RIVER	123.0	SC
K4SIR	BENTON		TN
WA4KOG	MEMPHIS		TN
KQ4E	MORRISTOWN		TN
KF4GHD	#MT PLEASANT	127.3	TN
AA4HQ	SALUDA		VA
KD4KAU	STAUNTON	131.8	VA
N8LGY	MT. ZION	107.2	WV
K8KRS	WELCH		WV
144.8700 / 145.4700			
KD4HMH	BONAIRE		GA
KG4OGC	RICEBORO		GA
N4CLA	SWEAT MT/MARIETT		GA
WB4GGH	BARDSTWN/NELSN	151.4	KY
K4NLT	HUEYSVILLE	79.7	KY
KF4BRO	MAYSVILLE	107.2	KY
WB5VYH	ABBEVILLE	107.2	MS
W4OIX	KINSTON		NC
W4NC	SAURATOWN MT	100.0	NC
KN4RG	GAFFNEY	141.3	SC
KI4CB	MYR BCH/CONWAY		SC
WB4GBI	KNOXVILLE		TN
KF4RBR	MOUNTAIN CITY	103.5	TN
N4ARK	NASHVILLE		TN
N4ZCM	SOUTH HILL		VA
W8FG	#SUMMERSVILLE	100.0	WV
144.8900 / 145.4900			
W4DV	AUGUSTA		GA
KA4WUJ	CORDELE	103.5	GA
W4LMA	MARIETTA	88.5	GA
W4KVK	HENDERSON		KY
WB4CWF	LEXINGTON		KY
N5VGK	TUPELO		MS
NT4K	FRANKLIN		NC
WB4IKY	GIBSONVILLE	107.2	NC
KF4LUC	HICKORY	94.8	NC
W4BWC	RALEIGH	82.5	NC
W4APE	CHERAW		SC
WA4KOG	BRADEN		TN
WB4LHO	MCMINVL/SHT MT		TN
K4CQ	AMHERST	136.5	VA
W8MOP	BLUEFIELD		VA
WA4OHX	HAMPTON		VA
WV8G	PARKERSBURG		WV
146.9950 / 146.3950			
WB9SHH	#MONTECELLO	88.5	KY
146.0100 / 146.6100			
W4CVY	COLUMBUS		GA
WB4JEH	CONYERS	151.4	GA
WD4KWV	CORBIN		KY
KC4FRA	MADISONVILLE		KY
W5LAR	LAUREL		MS
W4EWN	NEW BERN	100.0	NC
WB4TOP	RALEIGH	131.8	NC
KF4QDS	THOMASVILLE	123.0	NC
KC4WIF	ELLOREE	118.8	SC
W4NYK	GRNVLE/CSRS HD		SC
W4AM	CHATTANOOGA		TN
WA4PCD	NASHVILLE		TN
K4JP	ABINGDN/BRMLY MT		VA
W4CAR	CHESAPEAKE		VA
W4WWQ	LYNCHBURG	136.5	VA
WB8MZI	GASSAWAY		WV
146.0250 / 146.6250			
W4ZT	ATL/UNION CITY	100.0	GA
N4UJT	ELBERTON		GA
K4HAO	VIDALIA		GA
WA4GOZ	BOWLING GREEN	103.5	KY
K4ULW	WEBSTER	151.4	KY
KC5ULN	COLUMBUS		MS
KE5WO	PORT GIBSON		MS
K4USB	BUXTON	131.8	NC
KI4RR	LAURINBURG		NC
KF4SXO	CHESTER		SC
WB4VXX	CORNERSVILLE	107.2	TN
WB4GBI	KNOXVILLE	100.0	TN
W4UTM	MARTIN	107.2	TN
K4SVA	JARRATT I-95	100.0	VA
WV8B	FLAT TOP/WINTRPL	100.0	WV
146.0400 / 146.6400			
WB4QGR	#ATLANTA		GA
W4FWD	CARROLLTON	131.8	GA
AE4PO	WAYCROSS	141.3	GA
WA4UXJ	CANE VALLEY		KY
K5XU	MADISON		MS
WB5NAY	MOOREVILLE		MS
WB4YAO	HENDERSONVILLE	91.5	NC
W4DW	RALEIGH		NC
W4NC	WINSTON-SALEM	100.0	NC
W4GL	SUMTER		SC
KA4QYI	HARRIMAN	100.0	TN
WB4KQQ	MEMPHIS		TN
AF4TZ	NASHVILLE	114.8	TN
W4WIC	FINCASTLE		VA
N4QLF	MARION	103.5	VA
WB4QEY	RICHMOND		VA
N8HZ	HUNTINGTON/CHAS		WV
146.0550 / 146.6550			
N4NFP	ATLANTA/MARIETTA	151.4	GA
W4WSM	BOWLING GREEN-SO		KY
WD4DZC	DANVILLE		KY
K4CUW	PADUCAH		KY
KC5ZZH	MERIDIAN		MS
K4CEB	CONCORD/KANNAP.		NC
WA4VTX	ELIZABETH CITY	131.8	NC
KD4KOJ	BEAUFORT		SC
N5CWH	LEESVILLE	162.2	SC
KD4AOK	BROWNSVILLE		TN
W4RDM	LAWRENCEBURG		TN
W4OLB	MARYVILLE/ALCOA		TN
WA4ISI	ALTAVISTA		VA
N8ZPX	FLATWOODS	123.0	WV
N8SNW	IAEGER	203.5	WV
146.0700 / 146.6700			
W4ABP	GAINESVILLE	131.8	GA
KF4SJO	HAZARD		KY
W4KBL	PRINCETON		KY
W5UBG	NEW ALBANY		MS
KB5ZCX	PURVIS		MS
K4FHB	BURLINGTON		NC
K4OI	FOREST CITY	114.8	NC
AD4DN	WILMINGTON	88.5	NC
AD4U	ST. MATTHEWS	156.7	SC
W4UD	BRISTOL		TN
K4BGW	LAFOLLETTE		TN
AF4TZ	NASHVILLE	114.8	TN
W4CBM	DUBLIN		VA
KG4NJA	NASA LANGLEY	173.8	VA
KD4DDI	PAGECO		VA
K4RC	WILLIAMSBURG		VA
WD8JNU	RAVENSWOOD		WV
146.0850 / 146.6850			
K4NGA	ADAIRSVILLE		GA
WA4EPK	DARIEN		GA
K4KZY	FAYETTEVILLE		GA
KF4NTQ	GEORGETOWN	107.2	KY
N4WJS	OWENSBORO	110.9	KY
W5KHB	NATCHEZ		MS
W4NBR	GRIFTON	88.5	NC
W4SNC	STATESVILLE		NC
K4USC	UNION		SC
KF4ARH	WALLAND	88.5	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
N8FMD	CLARKSBURG	103.5	WV
WB8NAM	DANVILLE		WV
146.1000 / 146.7000			
W4MM	ALBANY		GA
K4UFO	JASPER		GA
KD4BWK	LAGRANGE	141.3	GA
WB4DOJ	MILLEDGEVILLE	67.0	GA
K4NLX	SAVANNAH		GA
KY4KY	BROOKS	151.4	KY
KD4DZE	GRAYSON	107.2	KY
WB4FUR	BAY ST. LOUIS		MS
W5LV	GRENADA		MS
W5FQ	MERIDIAN		MS
N4CID	DUNN		NC
W4PAX	#LANCASTER		SC
WT4F	PICKENS	107.2	SC
KF4BVQ	ANDERSON CTY	100.0	TN
W4UOT	MANCHESTER	114.8	TN
WB4MMI	RAMER	107.2	TN
WA4YGM	UNION CITY		TN
K4AU	DANVILE/WHT OAK	107.2	VA
KF8PT	NORFOLK		VA
KD4WWF	STAUNTON	131.8	VA
KC8AFH	BECKLEY	123.0	WV
146.1100 / 146.7100			
KF4FO	HOPKINSVILLE		KY
146.1150 / 146.7150			
K4NVG	LAVONIA	100.0	GA
W4ABZ	RINGGOLD	67.0	GA
KF4OFT	BEREA	100.0	KY
KA5TQY	GREENWOOD		MS
KD4JFN	HAW RIVER	107.2	NC
N4GGN	MILLERS CREEK		NC
WB4NEP	COLUMBIA		SC
KB4JUB	SALTILLO		TN
W9KIC	BLACKSBURG		VA
W4TTL	WALKERTON		VA
146.1300 / 146.7300			
W4MM	ALBANY		GA
KD4NC	ATLANTA/SWEAT MT		GA
K4TVE	BRUNSWICK		GA
WR4DH	MACON	100.0	GA
AC4AO	LEXINGTON		KY

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

AA4NI	#NEBO		KY
KC5IF	BILOXI		MS
KD5GVU	STARKVILLE	210.7	MS
KC5TGT	UTICA	77.0	MS
W4BWC	RALEIGH	82.5	NC
W4EXU	SALISBURY	94.8	NC
N4ILM	WILMINGTON		NC
K4NAB	N. AUGUSTA		SC
WA4UKX	SIMPSONVILLE	100.0	SC
WB4IOB	KNXVL/ENG MT		TN
KE4LFZ	MEMPHIS	107.2	TN
K4EHL	WATERTOWN	100.0	TN
W4QR	HAMPTON		VA
WB8SPW	LEWISBURG	100.0	WV
146.1450 / 146.7450			
KD4QHB	ATHENS		GA
K4WOC	CALHOUN	100.0	GA
AF4VH	SPRINGFIELD	97.4	GA
WA4TTC	GREENVILLE		KY
KD4RTR	MILLARD	141.3	KY
KC5VZI	#NEW ALBANY		MS
KC4QPR	MORGANTON	94.8	NC
N4WFU	ROANOKE RAPIDS	131.8	NC
W4JJ	DILLON/PEE DEE		SC
W4MV	DYERSBURG		TN
KC4WHL	HARRIMAN		TN
AA4YQ	WARTBURG		TN
K4ROA	ROANOKE/POOR MT	107.2	VA
146.1600 / 146.7600			
W4RRG	LOOKOUT MT.	67.0	GA
W4BOC	STONE MT	107.2	GA
WR4MG	UNADILLA	107.2	GA
KF4BJM	VALDOSTA	141.3	GA
K4KJQ	LEXINGTON		KY
K4CUW	PADUCAH		KY
W5AXQ	JACKSON		MS
WA4BVW	ASHVL/MT PISGAH		NC
K4GWH	GREENSBORO	156.7	NC
KB2XI	SWANSBORO		NC
WB4THL	WILSON	131.8	NC
K4ESG	MT PLEASANT		SC
K4JP	BRSTL/HOLSTN MT		TN
WA4PCD	NASHVILLE	114.8	TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
KB4ZIN	WILLIAMSBURG		VA
W8VA	HUNTINGTON	131.8	WV
N4RAG	LEWISBURG	131.8	WV
W8CUL	MORGANTOWN		WV
W8ZQ	WHEELING		WV
146.1750 / 146.7750			
N4NEQ	MARIETTA	151.4	GA
KB4NA	WRENS		GA
W4PPM	MIDDLESBORO		KY
KJ4OG	TOMPKINSVILLE		KY
AE4SK	VANCEBURG		KY
N5RTQ	CLEVELAND	107.2	MS
K5PN	HATTIESBURG	136.5	MS
W4ZU	HOLDEN BEACH	100.0	NC
NC4SU	RALEIGH	88.5	NC
KG4WAD	SALISBURY	94.8	NC
KF4GHC	FORT JACKSON	156.7	SC
WF4Q	FRUITLAND	107.2	TN
W4JVO	PULASKI/MUSIC MT		TN
AG4AN	FOREST	131.8	VA
WB3T	WYTHEVILLE	107.2	VA
KB8BWZ	ELKINS		WV
146.1900 / 146.7900			
KD4GEY	FOLKSTON		GA
WD4KOW	MOULTRIE		GA
K4SEX	NEWNAN		GA
K4VYX	SWAINSBORO		GA
W4YWH	HIGHLAND HEIGHTS	123.0	KY
KA4UHL	NANCY	100.0	KY
K5TYP	BILOXI		MS
W4TLP	CLINTON		NC
KG4ASL	SAURATOWN MT	107.2	NC
N4AW	ANDERSON/SAS MT		SC
WA4USN	CHARLESTON		SC
W4AM	CHATTANOOGA		TN
W4ABR	JOHNSON CITY		TN
W4KIB	MEMPHIS	107.2	TN
W4SQE	NASHVILLE	100.0	TN
N4SD	CHESAPEAKE		VA
NM8T	OAK HILL		WV
146.2050 / 146.8050			
K4PDQ	MACON	77.0	GA
KA4NNE	ELKTON	100.0	KY
W8PRH	HAZARD		KY
KF5C	STARKVILLE	192.8	MS
K5IMT	#VICKSBURG		MS
K4GNC	GASTONIA/CRWDR		NC
W4DCG	ROCKY MOUNT	118.8	NC
KF4ATU	ORANGEBURG	156.7	SC
KF4TNP	CORNERSVILLE	114.8	TN
W4EYJ	CROSSVILLE	131.8	TN
WB4MMI	SELMER	107.2	TN
WA4HTI	COVINGTON		VA
W4TTL	MECHANICSVILLE		VA
147.4050 / 146.8050			
KC4AQS	JASPER	100.0	GA
W4DJB	CANTON		NC
KD4TC	BIG "A" MTN	103.5	VA
146.2200 / 146.8200			
W4MM	ALBANY		GA
W4DOC	ATLANTA	146.2	GA
K4HVK	KIBBEE		GA
KF4DKJ	DRAKESBORO		KY
W4CMR	IRVINE	192.8	KY
K5HYE	MAGEE	100.0	MS
WB4PZA	WILKESBORO		NC
K4GMP	WILMINGTON	88.5	NC
KT4NZ	CAMDEN	131.8	SC
W4NYK	GRNVLE/PARIS MT		SC
WB4OAH	LAKE CITY		TN
W4BS	MEMPHIS		TN
KB4PNG	#ONEIDA		TN
W4UOT	WINCHESTER		TN
W4CAR	CHESAPEAKE	162.2	VA
N4WWB	GATE CITY		VA
WB8CQV	CHARLESTON	192.8	WV
146.2350 / 146.8350			
KC4GSS	THOMSON		GA
KF4AWA	SALVISA	192.8	KY
WB4PLA	ASHEVILLE		NC
KB4TOH	COLUMBIA	131.8	NC
W4USH	WADESBORO		NC
KT4YW	CHARLESTON		SC
KB4YTM	HUNTINGDON		TN
W4LYR	WATERTOWN	100.0	TN
KK4EH	GRUNDY/BIG A MT		VA
W4GSF	KILMARNOCK	173.8	VA
N4UTN	RUSTBURG/LONG MT	173.8	VA
KC8ECX	COWEN	110.9	WV
147.4350 / 146.8350			
N4KHQ	DAHLONEGA	100.0	GA
W4IDR	#HOPE MILLS		NC
KB4BPV	THOMASVILLE	88.5	NC
146.2500 / 146.8500			
W4RPO	DALLAS		GA
K4SDJ	SAVANNAH		GA
WA4ORT	WARNER ROBINS		GA
KM4IV	PIKEVILLE		KY
K5JMD	BUDE	103.5	MS
WB5MFK	IUKA		MS
W5LWC	KOSCIUSKO		MS
K4CYP	GOLDSBORO		NC
WA4DSZ	HICKORY/BRT. MT		NC
N4IV	REIDSVILLE	103.5	NC
W4ULH	FLORENCE		SC
WA4KJH	GTLBG/COVE MTN	127.3	TN
WA4KOG	MEMPHIS		TN
W4AY	NASHVILLE	114.8	TN
W4POX	PORTSMOUTH		VA
WA4ZBP	STAUNTON	131.8	VA
WV8BD	BECKLEY/FLAT TOP		WV
N8ZAR	BUCKHANNON		WV
146.2650 / 146.8650			
N4ZON	JESUP	123.0	GA
WB4DKY	MADISON	179.9	GA
AD4MU	OWENSBORO		KY
KG4AEU	RICHMOND	192.8	KY
KD4HLH	LAURENS	107.2	SC
KF4VGX	LITTLE RIVER		SC
W8EYU	#CROSSVILLE		TN
KN4KP	TRENTON		TN
KF4VDF	NORTON	103.5	VA
147.4650 / 146.8650			
N5DWU	ELLISVILLE	136.5	MS
N4WCO	MURPHY/STALCUP	151.4	NC
WA4ZRS	WAXHAW	94.8	NC
WZ8E	MOUNTAIN LAKE	110.9	VA
146.2800 / 146.8800			
W4CVY	COLUMBUS		GA
W4BTI	MARIETTA/ATLANTA	100.0	GA
WA4NKL	QUITMAN		GA
W4HBB	SAVANNAH		GA
W4PF	LOUISVILLE		KY
KA4UHL	SOMERSET	77.0	KY
K5QNE	JACKSON	100.0	MS
KE5SJ	PASCAGOULA		MS
WB4TQD	RALEIGH		NC
W4NYR	SHELBY		NC
N7GZT	ORANGEBURG		SC
WD4CYZ	BRISTOL		TN
WA4KOG	MEMPHIS		TN
WA4PCD	NASHVILLE		TN
W4SKH	OAK RIDGE		TN
W4RAT	RICHMOND		VA
WA4V	SALEM		VA
WB8CQV	SO. CHARLESTON	203.5	WV
146.2950 / 146.8950			
N4VNI	HARTWELL	100.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
N3SM	MACON	123.0	GA
K4JBV	FLORENCE	100.0	KY
KA4BLZ	LYNN GROVE	210.7	KY
W4APE	PAGELAND		SC
KF4HNV	CROSSVILLE	118.8	TN
WD4EGD	DANDRIDGE		TN
K4TTC	HOWENWALD	100.0	TN
WA4KXV	VIRGINIA BEACH		VA
WB3T	WYTH/WALKER MT	103.5	VA
147.4950 / 146.8950			
WD4LUQ	DALLAS	77.0	GA
KC4KZT	DORTON	141.3	KY
N5DWU	ELLISVILLE	136.5	MS
146.3100 / 146.9100			
WB4HIG	CLEVELAND		GA
K4HYB	GRIFFIN/CENAR		GA
K4GFY	MOREHEAD	123.0	KY
KS4TO	WADDY	107.2	KY
K5VV	HERNANDO		MS
WA5JZL	LUCEDALE		MS
K5OCM	NATCHEZ	91.5	MS
WA4ZGQ	AHOSKIE	131.8	NC
W4MOE	ASHVL/SPIVEY MT	91.5	NC
WB4YZF	FAYVLLE/CFARS	100	NC
W4PAR	LEXINGTON	107.2	NC
WA4SJS	WHITE HALL		SC
KC4ROG	KNOXVILLE		TN
W4YXA	SHORT MTN		TN
KE4ZBH	FARMVILLE		VA
K4TUE	MT.LAKE/BALD KNB	107.2	VA
N8BQ	MCMECHEN		WV
146.3250 / 146.9250			
WA4ASI	COVINGTON		GA
N4PJR	JESUP	141.3	GA
W4BEJ	RADCLIFF		KY
???	CORINTH	107.2	MS
AD4T	DOBSON	100.0	NC
W4APE	BISHOPVILLE		SC
W4GZX	CLEVELAND		TN
WD4OBW	JONESBOROUGH		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
WB4GJG	DANVILLE(DCC)	107.2	VA
WD8OGY	PRINCETON/PIPEST		WV
146.3400 / 146.9400			
KT4N	AUGUSTA		GA
W4VO	ROME/MT. ALTO	88.5	GA
WA4RVB	WRIGHTSVILLE		GA
K4GEC	ASHLAND		KY
KY4X	GLASGOW	114.8	KY
K4MSU	MURRAY	91.5	KY
KB5DWX	AMORY	192.8	MS
KA5SBK	JACKSON	100.0	MS
K5JMD	MCCOMB		MS
K4CTY	BURGAW		NC
WA4IZG	BUTNER	156.7	NC
W4BFB	CHARLOTTE		NC
W4ACY	WANCHESE	131.8	NC
N7GZT	CHARLESTON		SC
W4IQQ	GREENVILLE		SC
WB4GBI	KNOXVILLE		TN
N4BSM	MEMPHIS	107.2	TN
W4ZA	RICHMOND		VA
N4AP	ROANOKE		VA
KD8AB	FENWICK		WV
W8CWO	WEIRTON		WV
146.3550 / 146.9550			
KD4AOZ	ATHENS	123.0	GA
KE4RQT	BLAIRSVILLE	100.0	GA
WR4MG	PERRY	107.2	GA
KF4BRO	FLEMINGSBURG	107.2	KY
N5EKR	ELLISVILLE		MS
KC5OB	ISOLA		MS
KD4WAR	BURNSVILLE		NC
K4RNC	ROCKINGHAM		NC
KD4BMX	PINE RIDGE	162.2	SC
NT4L	#NASHVILLE	114.8	TN
WZ8E	BLUEFIELD/ONEIDA	100.0	VA
N4CFA	FARMVILLE	136.5	VA
146.3700 / 146.9700			
K4CLJ	ATLANTA		GA
W4HBB	SAVANNAH		GA
K4DPP	#HENDERSON		KY
W8PRH	STANTON		KY
KI5FW	MERIDIAN	100.0	MS
N5PH	PASCAGOULA		MS
N5EYM	WINONA	110.9	MS
KD4BJD	BENSON		NC
N4AW	ANDERSON		SC
W4GEY	FLORENCE		SC
W4TRC	KNGSPT/BAYS MT		TN
WD4MWQ	MCMINNVILLE		TN
WA4RWK	MEDINA		TN
W4SKH	OAK RIDGE		TN
NC4BL	FANCY GAP	100.0	VA
W4WRN	STAUNTON		VA
WA4KXV	VIRGINIA BEACH		VA
KC8CPK	LOGAN/WRD RK MT		WV
N8NBL	PARKERSBURG (OH)		WV
146.3800 / 146.9800			
W4BEJ	ELIZABETHTOWN		KY
146.3850 / 146.9850			
K4KNS	AUGUSTA	100.0	GA
KC4ZGN	ELLIJAY/TALONA M	77.0	GA
KN4FE	WARM SPRINGS		GA
N4SEI	#JONATHAN CREEK		KY
N5LRQ	COLLINS	136.5	MS
KB5DMT	SENATOBIA	107.2	MS
K4OGB	ALBEMARLE	100.0	NC
K4JPE	DURHAM	250.3	NC
WD4PVE	MARION	118.8	NC
KC4PRD	NASHVILLE		TN
KE4SCS	PETERSBURG	127.3	VA
W4CA	ROANOKE/POOR MT		VA
KF8LL	NEW MARTINSVILE		WV
146.4000 / 147.0000			
WA4NNO	ATLANTA		GA
K5UFH	CORINTH		MS
KE5TL	#VANCLEAVE		MS
N5DXM	WATER VALLEY		MS
WD4FVO	JACKSONVILLE		NC
KD4HTW	MARION	192.8	SC
WB4YXZ	PICKENS		SC
KD4CWB	#KNOXVILLE	100.0	TN
W4ZJM	MEMPHIS	*#	TN
W4LG	SUFFOLK	100.0	VA
147.6000 / 147.0000			
W4EEE	BOGART		GA
KE4LR	SHELBYVILLE		KY
KG4M	WILLIAMSBURG		KY
KC5ULN	COLUMBUS		MS
W5IQ	JACKSON		MS
WW4DC	THOMASVILLE	88.5	NC
W4CBX	BLOUNTVILLE		TN
AC4RS	CLARKSVILLE	167.9	TN
KA6UHV	COLLEGEDALE	131.8	TN
KD8ZR	TERRA ALTA		WV
146.4150 / 147.0150			
KE4AIS	WALESKA/PNLG	100.0	GA
N4YSB	YADKINVILLE		NC
AB4M	LYNCHBURG	131.8	VA
K4AXO	NORTON/HIGH KNB	88.5	VA
147.6150 / 147.0150			
K4EDN	BONAIRE	82.5	GA
KG4OGC	HINESVILLE		GA
AD4RU	IRVINE		KY
N5JHK	MONTICELLO		MS
NC4LC	LINCOLNTON	141.3	NC
W4BAD	RALEIGH	88.5	NC
W4GL	SUMTER	156.7	SC
AF4TZ	NASHVILLE		TN
KE4RX	RCKWD/MT ROSVLT		TN
WF4Q	UNION CITY	107.2	TN
AA8TH	RICHWOOD		WV
146.4300 / 147.0300			
WV5D	LAUREL		MS
KU4OL	MOUNTAIN REST		SC
K4YTZ	ROCK HILL		SC
WA4JST	RICHMOND		VA
147.6300 / 147.0300			
W4REI	ATLANTA/AIRPORT		GA
KD4ULE	HOPKINSVILLE	103.5	KY
W4PJZ	LOUISVILLE	151.4	KY
W5LDD	OCEAN SPRINGS		MS
KG4BTN	GREENSBORO	131.8	NC
KB4DJT	ROANOKE RAPIDS		NC
KK4BQ	BARNWELL	156.7	SC
N4JTH	#N. MYRTLE BEACH		SC
W4BV	FAYETTEVILLE		TN
W4EM	MEMPHIS	107.2	TN
KQ4E	MORRISTOWN		TN
KC8IT	MULLENS		WV
WB8ECC	ST.MARYS/BENS RG		WV
146.4450 / 147.0450			
K4AIH	ANDRWS/ROBNSVL	151.4	NC
147.6450 / 147.0450			
KE4ZRT	DOUGLAS	141.3	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KJ4VF	GRETHEL	100.0	KY
KE4OOS	PARIS	141.3	KY
KB5LCL	MORTON	141.3	MS
W4NHV	LUMBERTON		NC
KC4MJC	#TROUTMAN	77.0	NC
K4ILT	ST. GEORGE	103.5	SC
AF4O	BOLIVAR		TN
W5BAK	LIVINGSTON		TN
K4AYN	NASHVILLE		TN
KE4CKJ	STAUNTON/EL.KB	131.8	VA
WA4SBC	VIRGINIA BEACH		VA
146.4600 / 147.0600			
W4CQ	CHARLOTTE		NC
KD4LDU	CHARLESTON	141.3	TN
KF4AGO	SOUTH BOSTON		VA
KA8PNC	PRINCETON		WV
147.6600 / 147.0600			
WA4DDI	MACON		GA
N4CLA	ROSWELL		GA
W4UCJ	THOMASVILLE		GA
K4LOL	BOWLING GREEN	156.7	KY
W4NJA	PADUCAH	103.5	KY
N5OCF	RICHTON		MS
KB4BR	MACO		NC
W4VFR	SUMTER/SHAW		SC
N4FV	GREENEVILLE	186.2	TN
WA4MQQ	MEMPHIS		TN
N4VFB	SHELBYVILLE		TN
WB4VWR	ENON	107.2	VA
N8ZAR	BUCKHANNON	123.0	WV
147.6700 / 147.0700			
N4MRM	LOUISVILLE	151.4	KY
146.4750 / 147.0750			
KK4MW	CARBO	103.5	VA
NM8T	SMITHERS		WV
147.6750 / 147.0750			
W4CLA	CLAXTON		GA
W4GR	LAWRENCEVILLE	82.5	GA
N4TLP	OWINGSVILLE		KY
NC5Y	JACKSON		MS
K4CCR	NEWTON	88.5	NC
KD4JFN	PITTSBORO	146.2	NC
KT4BU	EASTOVER	156.7	SC
WQ4E	GREENBRIER	107.2	TN
WB4GBI	KNOXVILLE		TN
WF4Q	MCNAIRY	107.2	TN
AD4ZK	NORFOLK		VA
W4PNT	WAYNESBORO		VA
KE8MR	MORGANTOWN	103.5	WV
147.6900 / 147.0900			
KE4RWR	BAINBRIDGE		GA
KC4YHM	EATONTON	179.9	GA
K2YRW	YOUNG HARRIS		GA
KF4CWK	DAWSON SPRINGS	103.5	KY
KJ4YK	PHELPS		KY
KB5DSN	AMORY		MS
N5MRS	NEW HEBRON		MS
WB5FXH	#SUMNER		MS
W4GDF	GREENVL/ESTN NC		NC
KI4DH	STAR/BISCOE	100.0	NC
K4SHP	MYR BCH/ANYOR		SC
KF4ATU	ORANGEBURG	156.7	SC
K4JLA	PAULINE		SC
AG4UW	CENTERVILLE	123.0	TN
K4NLP	JAMESTOWN	100.0	TN
W4GMM	MEMPHIS	107.2	TN
W4BRC	GALAX/BRIRP MT		VA
N4TZE	GOOCHLAND		VA
N4RAG	MARLINTON	131.8	WV
147.7050 / 147.1050			
WB6RTH	ATLANTA	107.2	GA
KF4DG	PEMBROKE		GA
N4EQT	FRANKFORT	107.2	KY
WA4ZAC	HARLAN		KY
W5SAR	WAYNESBORO		MS
WA4KNI	HENDERSONVILLE		NC
K4ITL	LILLINGTON	82.5	NC
KD4NEC	CLEVELAND		TN
K4TC	HENDERSON		TN
W4LYR	LEBANON	100.0	TN
WB4JBJ	BEDFORD		VA
KB4ZIN	WILLIAMSBURG		VA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KA8AUW	SPENCER	100.0	WV
147.7200 / 147.1200			
W4CMA	CEDARTOWN		GA
K4HCA	CLARKESVILLE		GA
KT4N	#LINCOLNTON		GA
KA4KMT	#LOUISVILLE		KY
WB4ASZ	WINCHESTER		KY
NO5N	ACKERMAN		MS
N4GAS	GASTONIA/SPCR MT		NC
WN4Z	ROCKY MOUNT	131.8	NC
W4GS	MYRTLE BEACH		SC
W4GGM	COLUMBIA	127.3	TN
N4WAH	MEMPHIS	107.2	TN
W4SKH	OAK RIDGE	82.5	TN
WG8S	PATRICK SPRINGS	107.2	VA
WB8DKM	BRIDGEPORT		WV
WB8NAM	MADISON		WV
147.7350 / 147.1350			
N4BZJ	DALTON	118.8	GA
WR4SG	LAKE PARK	141.3	GA
KE4UWJ	MILLEDGEVILLE	123.0	GA
KF4CME	BARBOURVILLE	100.0	KY
KE4SZK	FRANKLIN	136.5	KY
KF4WMM	SANDY HOOK	107.2	KY
KB5UIX	VOSSBURG	136.5	MS
K4HXZ	BREVARD		NC
K4ITL	CHAPEL HILL	82.5	NC
WA4US	WILMINGTON	67.0	NC
K4CCC	CHESTERFIELD		SC
KG4BZN	WALTERBORO		SC
WB4EDS	ALAMO		TN
N4AZJ	PEARISBURG	100.0	VA
KC4VDZ	RICHMOND	107.2	VA
KE8MR	DAVIS	103.5	WV
KC8TLG	ROCKPORT	123.0	WV
147.7500 / 147.1500			
WB4GQX	CUMMING		GA
WA4IDS	SAVANNAH		GA
KD4YGK	LEBANON JCT.	203.5	KY
KI5WI	BOONEVILLE		MS
KF5IZ	PEARL/RANKIN CO	88.5	MS
K4VLY	MORGANTON		NC
K4ITL	ROANOKE RAPIDS	82.5	NC
WD4NUN	MONCKS CORNER		SC
WA4PCD	NASHVILLE WEST	114.8	TN
K4EAJ	OAK RIDGE	82.5	TN
KB4RFN	CLINCHCO	88.5	VA
KB8YDG	RICHWOOD	100.0	WV
147.7650 / 147.1650			
KE4ZRT	DOUGLAS	141.3	GA
KF4XH	#MACON		GA
N4OME	MADRAS	131.8	GA
N4NEQ	MORGANTON	151.4	GA
W4WSM	BOWLING GREEN		KY
WA4HBM	LEXINGTON		KY
WB4UBY	PRESTONSBURG		KY
W4UA	HIGH POINT		NC
KD4PBK	LUMBERTON	88.5	NC
W4GWD	GREENWOOD	107.2	SC
KF4BRS	ERWIN/UNICOI		TN
KC4YLL	PARIS	114.8	TN
WA4CEX	PURYEAR		TN
KR4BT	SPARTA/WHITE	123.0	TN
W4CM	NEWPORT NEWS		VA
KA8TCF	WESTON		WV
147.7800 / 147.1800			
N4BMA	AUGUSTA		GA
WD4NHW	BALDWIN		GA
WB4BDP	WARNER ROBINS	107.2	GA
KE4ZJT	LONDON	151.4	KY
W4CN	LOUISVILLE	88.5	KY
N5LRL	INDIANOLA	107.2	MS
KC5LIO	WEST POINT		MS
WA1YYN	EFLAND	156.7	NC
AC4RC	WILMINGTON	88.5	NC
W4DXA	FORT MILL		SC
W4HNK	SUMMERVILLE	123.0	SC
WD4DES	CLEVELAND	118.8	TN
WA4KOG	MEMPHIS		TN
K4ZGA	NASHVILLE	114.8	TN
WD4ITN	MONTEREY	100.0	VA
N4NRV	PKS KB/PULASKI	103.5	VA
WD8OHX	LEON		WV
147.7950 / 147.1950			
K4JPD	#AUSTELL	85.4	GA
W4UCJ	BOSTON		GA
KT4SH	CADIZ	103.5	KY
KJ4VF	LEXINGTON		KY
N5YNY	COLUMBIA	136.5	MS
N4NIN	#LENOIR		NC
KO4CW	RALEIGH	88.5	NC
W4APE	FLORENCE		SC
KC4FV	ARNOLD A.F.B.		TN
KD4CWB	KNOXVILLE	100.0	TN
AF4OQ	SARDIS	94.8	TN
WA4RTS	LYNCHBURG	136.5	VA
WT4RA	SMITHFIELD	100.0	VA
NV8H	LOGAN SOUTH	100.0	WV
147.8100 / 147.2100			
KF4GHF	CONYERS	162.2	GA
K4NLX	SAVANNAH		GA
KB4DFK	BLACK MOUNTAIN	103.5	KY
K4HY	OWENSBORO	110.9	KY
N5SPJ	UNION	100.0	MS
W4BUZ	GREENSBORO		NC
W4SLH	ORIENTAL	151.4	NC
W4NTQ	WHITEVILLE		NC
K4AVU	LITTLE MT.		SC
W4HPL	COOKEVILLE		TN
WF4Q	JACKSON	107.2	TN
KB8NJH	AMBER RIDGE	107.2	WV
N8FMD	CLARKSBURG	103.5	WV
147.8250 / 147.2250			
W8JI	BARNESVILLE		GA
KF4ADI	#COMMERCE		GA
KG4ABK	DOERUN		GA
W4RLP	SUMMERVILLE	100.0	GA
KY4SP	LITCHFIELD	179.9	KY
W5BJT	#FRENCH CAMP		MS
WB4SRV	CLAREMONT	162.2	NC
WR4AGC	HILLSBOROUGH		NC
W4DTW	ST. GEORGE		SC
NO4Q	MCEWEN		TN
WB4OAH	MORRISTOWN		TN
KA4VXR	HAMPTON	136.5	VA
WB8NRK	PRINCETON	114.8	WV
147.8400 / 147.2400			
AE4JO	EMERSON	103.5	GA
WB4NFG	IRWINTON	77.0	GA
KC4QK	ASHLAND	107.2	KY
W4GZ	FARMINGTON	91.5	KY
KC4AI	FRANKFORT	100.0	KY
KF4TLT	HYDEN	186.2	KY
W5PPB	PELAHATCIE	77.0	MS
N5ELS	TUPELO		MS
KG4BOS	CARTHAGE		NC
KG4JIA	CHERRY MTN	94.8	NC
W4GHZ	FRANKLIN	151.4	NC
W4IAR	HILTON HEAD		SC
AC4VT	LANCASTER	88.5	SC
K2PJ	MYRTLE BEACH	85.4	SC
W4LKZ	GALLATIN	114.8	TN
KD4ZTK	BOYDTON		VA
N4MGQ	ELK CRK/IRON MT	107.2	VA
AB8WB	#GASSAWAY	123.0	WV
147.8550 / 147.2550			
KR4NQ	SNELLVILLE	107.2	GA
AE4PO	WAYCROSS	141.3	GA
N4IOX	#DIXON		KY
K4CO	HIGHLAND HTS.	123.0	KY
KC5RC	LAUREL		MS
WA4KNI	HENDSVL/PENIC		NC
K4ITL	LEVEL CROSS	82.5	NC
W4RRC	LEESVILLE	123.0	SC
AG4UW	CENTERVILLE	123.0	TN
KJ4SI	PETROS/FRZ HD MT		TN
K4BW	ACCOMAC	156.7	VA
WD4CYZ	#CLINCHCO		VA
KC8CNL	HINTON	100.0	WV
WC8EC	PARKERSBURG		WV
147.8700 / 147.2700			
KF4ZUR	ALLENHURST	162.2	GA
W4VIR	AMERICUS		GA
KF4GHF	COVINGTON	162.2	GA
WB4EJK	LOUISVILLE	151.4	KY
KE4AIE	ST. CHARLES		KY
WB5USN	ABERDEEN		MS
K5ZRO	VICKSBURG	100.0	MS
W4CQ	CHARLOTTE		NC
AK4H	RALEIGH/BENSON		NC
N4SM	WAYNESVILLE		NC
W4ANK	CHARLESTON AREA		SC
WA4JRJ	SENECA/LONG MT		SC
WD4BKY	GALLATIN	114.8	TN
WB0TMC	JACKSON		TN
KE4FH	JOHNSON CITY		TN
WB4IKL	GUM SPRING		VA
KB4QWO	ROANOKE/POOR MT		VA
WV8AR	SCOTT DEPOT	123.0	WV
147.8850 / 147.2850			
W4PVW	ASHBURN/TIFTON	141.3	GA
KA5WZY	ATLANTA		GA
KC4WWU	KINGSLAND	118.8	GA
KC4ZFH	LONDON		KY
KA4FGA	#MARION		KY
N5LJC	COLUMBIA		MS
KB5TGA	CORINTH		MS
W4RCW	TRYON		NC
N4ADM	AIKEN		SC
N4LV	MYB BCH/BRKSVIL		SC
KF4JPT	PIKEVILLE		TN
KF4KVG	MARTINSVILLE	107.2	VA
KA4ZIP	WARSAW		VA
W8LG	PINEVILLE		WV
N8HON	SPRUCE KNOB		WV
147.9000 / 147.3000			
N4ALE	COLBERT		GA
WB4YSV	ROME		GA
WR4MG	WARNER ROBINS	107.2	GA
K4ICN	ALLEN	123.0	KY
WA4SJH	SPRINGFIELD		KY
KA5LNY	MAGEE		MS
W4YSB	JEFFERSON	103.5	NC
N4JEX	KANNAPOLIS	136.5	NC
W4MZP	RED SPRINGS		NC
WB4IUY	WILSON	88.5	NC
K4LWS	AWENDAW	103.5	SC
W4CAT	GALLATIN	114.8	TN
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4ADT	MEMPHIS	107.2	TN
W4LG	FRANKLIN	131.8	VA
KI4ZR	LEXINGTON	131.8	VA
WB8NSL	HARISVL/PENSBRO	100.0	WV
147.9150 / 147.3150			
AD4EQ	DOUGLAS	141.3	GA
W4STJ	FORSYTH	88.5	GA
W4LJM	#HODGENVILLE		KY
KC4VXR	SALEM		KY
KD5MIS	HATTIESBURG	136.5	MS
N5DWU	WAYNESBORO		MS
KF4HFQ	ROLESVILLE	88.5	NC
K4MPJ	SAURATOWN MT	100.0	NC
K4PPD	SHALLOTTE	118.8	NC
K4JLA	SPARTANBURG		SC
KD4HZN	ROGERSVILLE	114.8	TN
N4ARK	SPARTA	123.0	TN
KE4VQM	TELLICO PLAINS	141.3	TN
K4HWQ	GRUNDY		VA
147.9300 / 147.3300			
W3LAP	COCHRAN	77.0	GA
WB4BXO	LAGRANGE		GA
K4NLX	SAVANNAH		GA
N4MTN	TOCCOA		GA
WA8KWH	ASHLAND		KY
KA4CFW	BOWLING GREEN		KY
WD4KNE	#MT. STERLING		KY
N4IUI	#PROVIDENCE		KY
N5EPP	PHILADELPHIA		MS
WA4FLR	FAYETTEVILLE		NC
KN4K	LENOIR/HIBRITN	141.3	NC
KF4GHC	COLUMBIA	156.7	SC
WD4ORB	MORGAN COUNTY	82.5	TN
WD4RBJ	PULASKI	100.0	TN
KI4ZR	LEXNGTN/ROCK MT.		VA
147.9450 / 147.3450			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
N4PJR	JESUP/SCREVEN		GA
WD4JZH	LEBANON	151.4	KY
KF4TLT	STINETT		KY
KG5SF	GREENVILLE		MS
N5ZMZ	UTICA		MS
WA4IXW	MADISON	103.5	NC
W4NYR	SHELBY		NC
KF4DTL	SYLVA	151.4	NC
WA4TEP	WASHINGTON		NC
KF4CDR	CHARLESTON		SC
KB4RRC	PALMETTO		SC
K4BBN	CROSS PLAINS		TN
K4PHT	DAYTON		TN
NM4L	ABINGDON	103.5	VA
KC4KMY	EASTVILLE	156.7	VA
W3RUA	FRANKLIN		WV
KB8QXP	LOGAN/SUMERCO		WV
147.9600 / 147.3600			
W4SCR	DOUGLASVILLE	88.5	GA
WA4HZX	DUBLIN		GA
KQ9Z	LOUISVILLE		KY
W5CJR	HATTIESBURG		MS
KC5QGC	LOUISVILLE		MS
K5SVC	NATCHEZ	100.0	MS
WA4J	BOONE/RICH MTN	103.5	NC
WD4LDB	DURHAM		NC
W4PET	LUMBERTON		NC
N4EOY	COLUMBIA		SC
KA4OAK	LAFOLLETTE		TN
W4BS	MEMPHIS	107.2	TN
AF4TZ	NASHVILLE		TN
K4KLX	PARIS		TN
KA4CBB	CHESTERFIELD		VA
KB4OLM	STUARTS DRAFT		VA
N8FWL	BECKLEY	123.0	WV
WV8TC	MIDDLEBOURNE	110.9	WV
K7SOB	SKYLINE	127.3	WV
147.9750 / 147.3750			
K4TQU	ATHENS/CRAWFRD	127.3	GA
KB4VAK	LAFAYETTE	77.0	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
K4CO	WALTON	123.0	KY
KA5VFU	GULFPORT		MS
KD4EAD	BETHEL	151.4	NC
KD4WAR	BURNSVILLE		NC
K4GWH	GRAHAM	114.8	NC
KI4CB	GEORGETOWN		SC
K4LEO	#GREENWOOD		SC
KN4HL	DICKSON		TN
W4NRV	PEARISBURG	100.0	VA
WD8LNB	GRAFTON	118.8	WV
147.9800 / 147.3800			
WB5NAY	PONTOTOC		MS
147.9900 / 147.3900			
KE4SNT	#BLACK ROCK MT		GA
W4CJB	PEMBROKE		GA
W4OHH	THOMASTON	131.8	GA
N4INT	#ARTEMUS	107.2	KY
WR8CRA	COVINGTON	123.0	KY
KF4TOL	CRESTWOOD	151.4	KY
N8QCW	LOUISA	127.3	KY
KC5QHP	FOREST	100.0	MS
WB4IUY	CLAYTON	88.5	NC
WA4QBG	EDEN/STONEVILLE		NC
WA4CHZ	LOCUST	100.0	NC
K4PPD	SHALLOTTE		NC
N4DTR	WAYNESVILLE		NC
KA4FEC	LEXINGTON		SC
KF4L	CLARKSVILLE	123.0	TN
K4DPD	DAYTON/RHEA CTY		TN
KQ4E	#MORRISTOWN		TN
WA4BJY	OAKFIELD		TN
KF4TNP	#RICHLAND	167.9	TN
K4ARO	PETERSBURG		VA
N8RCG	KEYSER	123.0	WV
WV8D	LEWISBURG	100.0	WV
WD8CYV	PARKERSBURG	141.3	WV

220 MHZ

222.1800 / 223.7800			
WD8OHX	#LEON		WV
222.3000 / 223.9000			
WB4SJV	HERMITAGE		TN
222.3400 / 223.9400			
KC4QK	ASHLAND		KY
N4GSM	ROBBINSVILLE		NC
W4ZJM	MEMPHIS	*#	TN
222.3600 / 223.9600			
WR3S	SMITHVILLE		TN
222.3800 / 223.9800			
W4CAT	GALLATIN	107.2	TN
222.4200 / 224.0200			
WB4JEH	#CONYERS		GA
222.4600 / 224.0600			
W4NYR	SHELBY		NC
222.5000 / 224.1000			
K4SWS	EATONTON	179.9	GA
KA4UHL	NANCY	100.0	KY
KF4TNP	LEWISBURG		TN
WB4YHD	FAIRFAX		VA
N4CH	ROANOKE		VA
222.5200 / 224.1200			
N4NFP	ATLANTA/MARIETTA	151.4	GA
WM4MD	MIDDLESBORO	82.5	KY
K4ITL	CHAPEL HILL		NC
W4GL	SUMTER		SC
WV8B	FLAT TOP/WINTRPL	100.0	WV
222.5400 / 224.1400			
KD4ALC	WALESKA		GA
WR4BEG	SOPHIS/RANDLEMAN		NC
WB4QHF	PICKENS/CSRS HD	131.8	SC
KB4PNG	ONEIDA		TN
N4HRV	CHARLOTTESVILLE	88.5	VA
N8FWL	LEWISBURG	123.0	WV
WR8M	WILLIAMSON		WV
222.5600 / 224.1600			
KC4JNN	BISKEY MTN	100.0	GA
KN4K	LENOIR/HIBRITN		NC
K4ITL	RALEIGH		NC
N7GZT	COLUMBIA		SC
WR3S	NASHVILLE		TN
KF4VED	BLUEMTN		VA
222.5800 / 224.1800			
N4YDX	DALLAS		GA
N7GZT	ORANGEBURG		SC
KB8FPK	ERWIN		TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
222.6000 / 224.2000			
KC4OVY	#ATLANTA-NE	100.0	GA
WA4US	WILMINGTON		NC
W4ILY	GREENVILLE		SC
W4CBX	BLOUNTVILLE		TN
W4JAS	HAMPDEN-SYDNEY		VA
222.6200 / 224.2200			
KB0Y	RAY CITY	141.3	GA
AD4CR	VERSAILLES		KY
NF4C	ROCKY MOUNT		NC
KB4FZK	KNXVL/CROSS MT	100.0	TN
KO4BN	SPRINGFIELD		TN
N3HXT	WINCHESTER		VA
KC8LRN	HILLSBORO	131.8	WV
222.6400 / 224.2400			
N4YYD	FT MT/CHATSWTH	71.9	GA
WA4KNI	HENDSVL/BERWLW		NC
KE4QOX	KVILLE/HIPOINT	107.2	NC
N8FWL	BECKLEY	123.0	WV
222.6600 / 224.2600			
KE4QFG	MARIETTA	110.9	GA
K4NLT	GARRETT	79.7	KY
WA4BVW	ASHVL/MT PISGAH		NC
WR4AGC	HILLSBOROUGH		NC
N4PYI	SHORT MTN.	114.8	TN
222.6800 / 224.2800			
N4MNA	CONLEY		GA
AC4RZ	PICKENS		SC
KA4OAK	LAFOLLETTE		TN
AB4M	LYNCHBURG		VA
222.7000 / 224.3000			
KB4TIW	VILLA RICA	131.8	GA
KA4MKT	LOUISVILLE		KY
N4AI	SOMERSET		KY
WA4WRS	BARIUM SPRINGS		NC
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
222.7200 / 224.3200			
N4MTA	ACWORTH/ATL	123.0	GA
KA4SQN	JACKSONVILLE		NC
W4IT	PICKENS/SASFR MT		SC
KK4US	CLEVELAND		TN
223.7200 / 224.3200			
K4TDO	LYNCH		KY
222.7400 / 224.3400			
W4DOC	ATLANTA		GA
WW4DC	THOMASVILLE	88.5	NC
WB4GBI	KNOXVILLE		TN
KM4OI	TYSONS CORNER		VA
N8FWL	BECKLEY/OAK HILL	123.0	WV
222.7600 / 224.3600			
N4BZJ	DALTON		GA
WB4PAC	GRIMESLAND		NC
WA4TG	MARSHALL		NC
WR3S	LAVERGNE		TN
KE4JSV	LURAY		VA
WB8YST	CHARLESTON	107.2	WV
222.7800 / 224.3800			
N4RBT	DAHLONEGA	100.0	GA
WR4AMS	META		KY
N4OQJ	KNOXVILLE	100.0	TN
WS4W	RIDGEWAY		VA
222.8000 / 224.4000			
KC4AQS	JASPER	100.0	GA
W4BFB	CHARLOTTE		NC
WB4QHF	PICKENS	131.8	SC
KB4YGI	COLLIERVILLE		TN
N4RBB	MORRISTOWN		TN
W8COX	SUTTON	123.0	WV
222.8200 / 224.4200			
KD4AOZ	WATKINSVILLE	123.0	GA
AC4AO	LEXINGTON		KY
N4PJX	CLARKESVILLE	123.0	TN
W4BS	MEMPHIS		TN
WD4GSM	NORTON/HIGH KNB		VA
WG8S	PATRICK SPRINGS	103.5	VA
WD4KHP	BELL KNOB		VA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

222.8400 / 224.4400			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
WB4GUG	GREENSBORO	107.2	NC
KN4CW	WEST SPRINGS		SC
KC4TFQ	#NASHVILLE		TN
N2FUV	SEVIERVILLE		TN
N8FWL	BLUEFIELD	123.0	VA
222.8600 / 224.4600			
N4BZJ	DALTON	118.8	GA
KB0Y	VALDOSTA	141.3	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
KC4ZTJ	SHELBY		NC
WR3S	NASHVILLE		TN
222.8800 / 224.4800			
KC4FWC	LOCUST		NC
K4ZGA	NASHVILLE		TN
KD4HZN	ROGERSVILLE		TN
KC8LRN	CRAIGSVILLE	91.5	WV
222.9000 / 224.5000			
N4MTA	ACWORTH/ATL	123.0	GA
N4FND	SHEPHERDSVILLE	151.4	KY
N4DRL	BYHALIA		MS
AD4DN	WILMINGTON	88.5	NC
KG4JIA	GAFFNEY	123.0	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
K4RCA	MARTINSVILLE		VA
222.9200 / 224.5200			
KE4AIS	PINE LOG MTN		GA
WR4AMS	DORTON		KY
KD4CJG	ASHEVILLE	91.5	NC
N7GZT	LITTLE MTN		SC
222.9400 / 224.5400			
N4YEA	DALLAS		GA
WA4BVW	MT MITCHELL		NC
N8ITF	SPRINGFIELD	107.2	TN
WB4PVT	HAMPTON	100.0	VA
N8FWL	BECKLEY - WEST	123.0	WV
222.9600 / 224.5600			
W4RRG	LOOKOUT MT		GA
KD4RXF	LANCASTER		KY
WB4YZF	FAYETTEVILLE		NC
N5CWH	LEESVILLE	162.2	SC
AC4JF	NEWPORT	100.0	TN
KC8CSE	GREENBANK	123.0	WV
222.9800 / 224.5800			
NX9O	ALPHARETTA	100.0	GA
WB4F	PIKEVILLE		KY
KR4AA	ROCKY MOUNT		NC
KB4VFD	CROSS		SC
N4KFI	KNOXVILLE	103.5	TN
223.0000 / 224.6000			
W4UWH	JASPER	100.0	GA
WB4PLA	ASHEVILLE		NC
KC4KUL	#BIG PHOENIX MTN	100.0	NC
KD4TZZ	MURFREESBORO	123.0	TN
W4LG	LAKE GASTON		VA
223.0200 / 224.6200			
W4PME	ATLANTA/BELL	100.0	GA
KD4DAR	PIKEVILLE		KY
KC4IRA	GASTONIA	127.3	NC
KD4JFN	HAW RIVER	107.2	NC
W4UWH	GATLINBURG		TN
W4GSF	GLOUCESTER		VA
223.0400 / 224.6400			
W4RRG	LOOKOUT MT.		GA
KG4JIA	CHERRY MTN	71.9	NC
W4RNC	RALEIGH		NC
N7GZT	COLUMBIA		SC
KC4RGQ	MORRISTOWN		TN
N8FWL	HINTON/BECKLEY	123.0	WV
223.0600 / 224.6600			
NP2Y	YOUNG HARRIS	100.0	GA
KE4RQL	BIG KNB/MARS HIL	100.0	NC
WA1YYN	EFLAND	107.2	NC
W4VFR	SUMTER/SHAW		SC
WR3S	NASHVILLE		TN
223.0800 / 224.6800			
N4BZJ	DALTON		GA
WB4KPF	WILMINGTON		NC
KA4RCL	WAYNESBORO	131.8	VA
223.1000 / 224.7000			
W4TIY	DALLAS		GA
WB9SZL	CLEMMONS	100.0	NC
KM4TC	DUNCAN	88.5	NC
KD4VUW	GALLATIN		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4ARO	PETERSBURG		VA
WS8L	CHARLESTON	123.0	WV
223.1200 / 224.7200			
W4UWH	CLAYTON		GA
WR4AMS	PRESTONSBURG		KY
WA4DAN	TRENTON		NC
K4MFD	GRNVL/VIKING	173.8	TN
KC8LRN	SLATY FORK	91.5	WV
223.1400 / 224.7400			
N4KVC	DALTON		GA
KD4WAR	BURNSVILLE		NC
N4NCK	OXFORD		NC
N4PYI	NASHVILLE	100.0	TN
KC4JGC	NORFOLK	100.0	VA
N8FWL	BECKLEY - SOUTH	123.0	WV
223.1600 / 224.7600			
W4BOC	#DECATUR		GA
KB7BTU	PLYMOUTH	131.8	NC
W4EXU	SALISBURY		NC
WQ4E	GREENBRIER		TN
K4PCK	KNOXVILLE		TN
WR3S	S. PITTSBURG		TN
WA4TFZ	CHARLOTTESVILLE		VA
223.1800 / 224.7800			
KC4KLW	CEDARTOWN	179.9	GA
WB5OWY	VICKSBURG		MS
N4IV	EDEN	103.5	NC
KO4BR	ORANGEBURG		SC
K4VCM	CHATTANOOGA		TN
KE4FH	JC/BUFFALO MT		TN
WA4KOG	MEMPHIS		TN
W4IY	WOODBRIDGE		VA
223.2000 / 224.8000			
WA4SSJ	JERSEY	103.5	GA
KR4BD	LEXINGTON		KY
WZ4SC	FORT MILL		SC
WQ4E	GREENBRIAR		TN
KD4IBW	SEVIERVILLE		TN
KC8LRN	LEWISBURG	131.8	WV
223.2200 / 224.8200			
KK4C	ATLANTA	77.0	GA
WR4MG	HAWKINSVILLE	107.2	GA
WR4AMS	HAZARD		KY
N4DWU	CANTON		NC
KF4IXK	KERNERSVILLE	107.2	NC
223.2400 / 224.8400			
W4TL	GAINESVILLE	203.5	GA
WR4MG	WARNER ROBINS		GA
WA4NC	BANNER ELK		NC
WA4DAN	GRIFTON		NC
KC4WGH	COALFIELD	88.5	TN
KC4PRD	NASHVILLE		TN
N4PLV	BEDFORD		VA
N8FWL	ANSTED	123.0	WV
223.2600 / 224.8600			
KC4JNN	ALPHARETTA	100.0	GA
K4NOC	BISHOPVILLE		SC
KQ4Q	PEARISBURG	107.2	VA
223.2800 / 224.8800			
WD4LUQ	YORKVILLE	77.0	GA
N4AI	SOMERSET		KY
N4DRL	WARSAW		MS
K4AIH	ANDRWS/ROBINSVL		NC
W4JYV	CARY	88.5	NC
K4DQ	FANCY GAP	100.0	VA
223.3000 / 224.9000			
W4LMA	MARIETTA		GA
N4EQT	LAWRENCEBURG	107.2	KY
N4EOY	COLUMBIA		SC
W4WC	GREENEVILLE	100.0	TN
WD9JGI	SWEETWATER	127.3	TN
AA4HQ	DELTAVILLE		VA
K4YDG	ROANOKE/TINKER		VA
223.3200 / 224.9200			
W4CSX	SNELLVILLE	100.0	GA
W4NYK	GRNVL/DOWNTWN	88.5	SC
W4RRG	CLEVELAND		TN
WA8O	BLUEFIELD		VA
223.3400 / 224.9400			
WB4KXO	AUGUSTA		GA
KE4AIS	WALESKA/PNLG		GA
AD4RU	IRVINE		KY
N4JJ	FLORENCE		SC
WB4NKM	GREENEVILLE		TN
WA4PCD	NASHVILLE		TN
AB4EM	ROANOKE/CAHAS MT		VA
223.3600 / 224.9600			
K4RFL	ATLANTA/MARIETTA	100.0	GA
KC4ZTJ	CHERRYVILLE		NC
N4QVI	GREENSBORO		NC
N4UQS	HENDERSONVILLE		NC
WR3S	SE NASHVILLE		TN
223.3800 / 224.9800			
K4JSR	CUMMING		GA
WR4AMS	LONDON		KY
W4LG	CHESAPEAKE		VA

440 MHZ

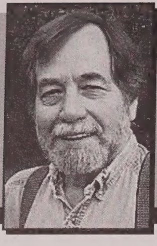
426.0500 / 420.0500			
KB4CVN	LYNCHBURG	136.5	VA
434.0000 / 421.2500			
W4ZTL	ATLANTA/BELL		GA
K4NLX	SAVANNAH		GA
KJ4SO	DURHAM TV HILL		NC
KO4AT	GREENSBORO		NC
WD4ATV	JOHNSON CITY/BUF		TN
WA4GSS	HUNTINGTON		WV
KB8QHO	WHEELING		WV
439.2500 / 421.2500			
W4BEJ	ELIZABETHTOWN		KY
W4PPN	CHARLOTTE		NC
N4GUP	LEXINGTON		SC
WZ4O	SUMTER		SC
AF4TZ	NASHVILLE		TN
N4XND	GLOUCESTER		VA
W4HTB	BOWLING GREEN		KY
KA5NOJ	GAUTIER		MS
N3XA	WAYNESBORO		VA
WA4VHP	SAVANNAH		GA
W4NYR	#SHELBY		NC
438.7750 / 433.0750			
WA3KOK	CHESTERFIELD		VA
438.8000 / 433.2000			
WD4ICX	FANCY GAP		VA
446.2500 / 441.2500			
NQ4Y	MONTEAGLE MT.		TN
446.3500 / 441.3500			
KD4DXR	#WALESKA		GA
WA4USN	KNIGHTSVILLE		SC
446.4500 / 441.4500			
WA4USN	MT. PLEASANT		SC
446.5250 / 441.5250			
N4KJU	PAINTSVILLE	127.3	KY
KY4SP	WEBSTER		KY
KG4AQH	GREELEYVILLE		SC
446.6000 / 441.6000			
WA4AYB	RICHMOND		VA
446.6250 / 441.6250			
W4ERT	TAYLORSVILLE	123.0	NC
446.8000 / 441.8000			
KC4YNF	ACWORTH	77.0	GA
AF4MI	PEMBROKE	123.0	GA
446.8250 / 441.8250			
KA4MLK	ROME	100.0	GA
446.8500 / 441.8500			
KF4QLF	GRIFFIN		GA
K4WOC	SUGAR VALLEY	103.5	GA
KY4DJ	FORT WRIGHT	107.2	KY
446.8750 / 441.8750			
K4NRC	NEWNAN	156.7	GA
KD4TZZ	MURFREESBORO	107.2	TN
446.9000 / 441.9000			
WB4GQX	CUMMING	141.3	GA
N2QJI	ZIRCONIA	94.8	NC
AG4VT	PACOLET	100.0	SC
446.9250 / 441.9250			
W4CSX	DALLAS	162.2	GA
446.9500 / 441.9500			
KE4OKD	SANDY SPRINGS	156.7	GA
K4TUE	NEWPORT	107.2	VA
446.9750 / 441.9750			
WB4ULK	COLUMBUS		GA
KF4ADI	COMMERCE	123.0	GA
KG4BTN	GREENSBORO	162.2	NC
447.0000 / 442.0000			
WB6RTH	ALPHARETTA	107.2	GA
AF4UL	MACON	100.0	GA
N4ORL	LOUISVILLE		KY
AI4M	GAFFNEY	114.8	SC
K4TTC	HOHENWALD		TN
K4BTL	MARYVILLE		TN
W4LG	GASBURG		VA
WB3T	WYTHE/WALKER MT	103.5	VA
447.0250 / 442.0250			
W4CML	ATLANTA	127.3	GA
KD4KMK	YADKINVILLE	100.0	NC
WJ9J	CHATTANOOGA		TN
447.0500 / 442.0500			
N1KDO	MARIETTA	107.2	GA
KD4ADJ	LEXINGTON		KY
WA1YYN	EFLAND	107.2	NC
KD4XV	JASPER	127.3	TN
WB4SQC	#JOHNSON CITY		TN
WA4BJY	MEDINA		TN
447.0250 / 442.0750			
W8BLA	ROSWELL		GA
447.0750 / 442.0750			
N4VOS	STANTON		KY
KD4PBS	APEX	114.8	NC
K4JLA	COLUMBUS	103.5	NC
N4JDW	WILMINGTON	88.5	NC
KJ4BJ	DAYTON		TN
KA4BNI	LEXINGTON	107.2	TN
KF4UCI	CHARLOTTESVILLE	151.4	VA
447.1000 / 442.1000			
K4HUM	NORCROSS	100.0	GA
N4RBL	LOUISVILLE AREA		KY
N4IV	WENTWORTH	103.5	NC
K4USC	UNION		SC
KF4TNP	LEWISBURG	107.2	TN
WD4PAX	MILAN		TN
447.1250 / 442.1250			
W4ZT	ATL/UNION CITY	100.0	GA
KD4GRU	BLUERIDGE	146.2	GA
KG4IWI	HENDERSON	88.5	NC
WT4IX	NEWEL	156.7	NC
WT4F	PICKENS		SC
KB4YFV	HILLSVILLE	103.5	VA
447.1500 / 442.1500			
N4SE	ROSWELL/BELL	100.0	GA
KD4RTR	DORTON	167.9	KY
W4UNC	CHAPEL HILL	131.8	NC
N4SJW	CHARLESTON		SC
WJ9J	CHATTANOOGA		TN
KA4BNI	DRESDEN	107.2	TN
WD4RBJ	PULASKI	118.8	TN
KA4CBB	CHESTERFIELD		VA
447.1750 / 442.1750			
N4BZJ	DALTON	118.8	GA
K4NGQ	FRANKFORT	67.0	KY
KC4UBR	LINVILLE	136.5	NC
KE4GYN	ROXBORO	156.7	NC
WA4US	WILMINGTON		NC
KU4ZS	SPARTANBURG	123.0	SC
W4GMM	MEMPHIS	107.2	TN
W4VSP	WYTHEVILLE	103.5	VA
447.2000 / 442.2000			
KF4SKT	BLAIRSVILLE		GA
N3APR	DECATUR		GA
N5DWU	ELLISVILLE	167.9	MS
WA4US	WILMINGTON		NC
N7GZT	COLUMBIA	162.2	SC
WM4T	GRAY	100.0	TN
WA4BJY	OAKFIELD		TN
N4IFC	LYNCHBURG/T.ROW	103.5	VA
447.2250 / 442.2250			
WB6RTH	#ATLANTA	107.2	GA
WJ9J	RCKWOOD/OZONE		TN
NO4Q	WAVERLY	110.9	TN
447.2500 / 442.2500			
K4HAC	MADRAS	141.3	GA
N5DWU	ELLISVILLE	136.5	MS
KB4PQA	GREENVILLE		SC
WD4DES	CLEVELAND	118.8	TN
WA4PGI	COVINGTON	100.0	VA
447.2750 / 442.2750			
K4DDH	MACON	100.0	GA
N4ZCM	AUBURN		NC
KO0NTZ	LEXINGTON	146.2	NC
KF4CFO	ETOWAH	141.3	TN
KE4PFW	HENDERSON		TN
K8VKB	RICHWOOD	123.0	WV
447.3000 / 442.3000			
KW4KW	RINGGOLD	118.8	GA
WW4T	STATHAM		GA
KC4QPR	MORG/WALKER TOP	94.8	NC
KC4ED	SUMMERVILLE		SC
WA4UCE	COOKEVILLE	107.2	TN
KC4VDZ	RICHMOND	114.8	VA
447.3250 / 442.3250			
W4JLG	MABLETON		GA
WM4MD	MIDDLESBORO	67.0	KY
K2IMO	ELM CITY	88.5	NC
447.3500 / 442.3500			
WD4NHW	BALDWIN		GA
KG4PTO	COLLEGE PARK	OT	GA
KD4TAH	RUSSELLVILLE	136.5	KY
KF5TU	LAKE GASTON	100.H	NC
WA4YGD	LINCOLNTON		NC
447.3750 / 442.3750			
KE4QFG	MARIETTA		GA
KE4YRE	SHELBYVILLE		KY
WA4PXV	HICKORY		NC
KG4CEO	CUMBERLAND FU	107.2	TN
447.4000 / 442.4000			
N4UER	WARM SPRINGS		GA
KF4JJD	GARRETT	79.7	KY
AA4XV	LATONIA		KY
WB4QHF	PICKENS/CSRS HD	127.3	SC
KA4BNI	HORNBEAK	107.2	TN
KF4YI	LYNCHBG/JACK MT.	107.2	VA
447.4250 / 442.4250			
K4SWS	EATONTON		GA
KC4FIE	MADISONVILLE		KY
K4AE	LEXINGTON	107.2	NC
AF4ZJ	CHAT/WALDEN		TN
KA4BNI	JACKSON	107.2	TN
447.4500 / 442.4500			
W4CML	SNELLVILLE		GA
KD4CLR	LOUISVILLE AREA	151.4	KY
WA4TOG	HENDERSONVILLE		NC
N4LMR	RALEIGH		NC
KD4NED	CLEVELAND	88.5	TN
W8MOP	BLUEFIELD		VA
WA3KOK	CHESTERFIELD	107.2	VA
447.4750 / 442.4750			
K4NVG	LAVONIA	203.5	GA
W4RRG	LOOKOUT MT.	67.0	GA
W1MED	MARLOW	114.8	GA
KE4DGP	WILKESBORO	107.2	NC
AG4AN	FOREST		VA
447.5000 / 442.5000			
AB4KN	PEACHTREE CITY	77.0	GA
KE4PMP	VIDALIA	88.5	GA
KB4RYM	LOUISVILLE		KY
K4GFY	MOREHEAD		KY
KG4JIA	CHERRY MTN	94.8	NC
K4YNY	WILMINGTON	88.5	NC
WB4HAP	KNOXVILLE	103.5	TN
K1YJ	NASHVILLE	123.0	TN
W4CA	ROANOKE/POOR MT		VA
447.5250 / 442.5250			
N4XQM	ATLANTA	110.9	GA
KY4JD	FORT WRIGHT	123.0	KY
N2QJI	CONCORD	94.8	NC
WB3T	WYTHEVILLE	103.5	VA
447.5500 / 442.5500			
WB4JEH	CONYERS	151.4	GA
WD4ELX	LOUISVILLE		KY
WA4TOG	ASHEVILLE		NC
K1BUD	PITTSBORO		NC
W4RAT	RICHMOND	127.3	VA
447.5750 / 442.5750			
WA4BPY	CUMMING	79.9	GA
AE4LW	MADISONVILLE	100.0	KY
W4MLU	RALEIGH		NC
KU4RT	HENDERSON		TN
NU5O	MEMPHIS	77.0	TN
WB4IVB	JONESVILLE	100.0	VA
447.6000 / 442.6000			
KD4FOC	DUBLIN	77.0	GA
WA4OKJ	MARIETTA	100.0	GA
KD4ADJ	MT STERLING		KY
WD4NWV	ANDRWS/ROBINSVL	151.4	NC
WA4PXV	VALDESE		NC
N8ITF	SPRINGFIELD	107.2	TN
K4ARO	PETERSBURG		VA
K4ARO	ROANOKE		VA
447.6250 / 442.6250			
W4ABP	GAINESVILLE	131.8	GA
KD4CDX	HARLAN	100.0	KY
KE4KIV	NEWTON		NC
WB4EPG	MEMPHIS		TN
447.6500 / 442.6500			
KE4FHN	DANIELSVILLE		GA
W4RRG	LOOKOUT MT	100.0	GA
KD4GEU	ASHEVILLE		NC
N4IBM	CHARLOTTE		NC
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
447.6750 / 442.6750			
KE4PVE	ATLANTA	100.0	GA
KD4BOH	ROCKPORT	77.0	KY
KA2NAX	MORAVIAN FALLS	88.5	NC
NC4SU	RALEIGH	100.0	NC
WA4MPZ	BLUFFTON	100.0	SC
KA4BNI	CONCORD	107.2	TN
447.7000 / 442.7000			
KC4ZGN	ELLIJAY	77.0	GA
W4MAZ	MACON	97.4	GA
K4NLX	SAVANNAH		GA
KC4YOT	GASTONIA	88.5	NC
N4FV	GREENVILLE		TN
WA4PZN	SHELBYVILLE		TN
W7CP	ROANOKE		VA
447.7250 / 442.7250			
KE4QFG	MARIETTA/ATL		GA

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Continues

KB4YJ	LOUISVILLE	151.4	KY
N5LRQ	VOSSBURG	167.9	MS
AA4LB	SIMPSONVILLE	100.0	SC
W4RDM	COLUMBIA		TN
KE4MBR	DECATUR	141.3	TN
KF4RMT	VESTA	107.2	VA
KB8PCW	GILBERT		WV
447.7500 / 442.7500			
N3DAB	JASPER	141.3	GA
KD4HEY	ANDERSON	162.2	SC
KE4SWV	CASTALIAN SPRING	123.0	TN
WD4KZK	ROANOKE/MILL MT	107.2	VA
447.7750 / 442.7750			
K4VJM	FLOWERY BRANCH		GA
KC4FIE	MADISONVILLE		KY
KG4LWG	GASTONIA	123.0	NC
KF4CDR	CHARLESTON		SC
AE4PZ	MOUNTAIN REST	127.3	SC
KE4CIF	PULASKI		VA
447.8000 / 442.8000			
N4NFP	ATL/MARIETTA		GA
N4AAD	YADKINVILLE	100.0	NC
WD4LUR	LAKE CITY	100.0	TN
KA4BNI	SELMER	107.2	TN
KB4MIC	GUM SPRING		VA
447.8250 / 442.8250			
W1CP	CLAYTON	162.2	GA
KC4ENL	HAPEVILLE	167.9	GA
WF4G	MEMPHIS		TN
KT4PN	ONEIDA		TN
447.8500 / 442.8500			
WB4HJG	LAWRENCEVILLE	82.5	GA
W2HR	GILBERTSVILLE	103.5	KY
AG4AZ	BREVARD		NC
KA4IXK	ROANOKE/POOR MT		VA
WB8NSL	PENNSBORO	103.5	WV
447.8750 / 442.8750			
K4RFL	ATLANTA/MARIETTA	100.0	GA
W3LAP	COCHRAN	77.0	GA
W4GSO	GREENSBORO	88.5	NC
KC4WHL	HARRIMAN	136.5	TN
KF4OCK	LORETTO	203.5	TN
447.9000 / 442.9000			
KF4RLZ	LAWRENCEVILLE	123.0	GA
WR4MG	WARNER ROBINS		GA
W4CMR	IRVINE		KY
WW4DC	THOMASVILLE	88.5	NC
N4WT	CHATT/HIXSON		TN
KA1FFO	CLARKSVILLE	110.9	TN
KE4CES	JACKSON	114.8	TN
W4MT	NEWPORT NEWS	100.0	VA
447.9250 / 442.9250			
KC4YHM	EATONTON		GA
K4CH	LEXINGTON	107.2	NC
N5YKR	LEXINGTON	123.0	TN
WD4OAR	WHITE OAK MT	100.0	TN
KB8QKM	CHARLESTON	71.9	WV
447.9500 / 442.9500			
AA4AI	ATHENS	179.9	GA
N4XGI	ST SIMONS ISLAND	131.8	GA
W4ERT	TAYLORSVILLE	151.4	NC
KC4YLL	PARIS	123.0	TN
AB4FU	LYNCHBURG		VA
K4DA	NORFOLK	131.8	VA
447.9750 / 442.9750			
WA4YNZ	ATLANTA		GA
WA4YNZ	#ROSWELL		GA
AG4TY	WAYNESBURG		KY
KF4DAR	KERNERSVILLE	107.2	NC
NK4W	LITTLE MT	162.2	SC
KB8KSP	ABINGDON	100.0	VA
448.0000 / 443.0000			
W4DRC	CHATSWORTH		GA
KE4ZRT	DOUGLAS	141.3	GA
KT4GB	BARDSTOWN		KY
KD4DVI	PADUCAH	179.9	KY
KI4RK	GOLDSBORO	100.0	NC
KW4LS	LEBANON	100.0	TN
W4ZJM	MEMPHIS	*#	TN
KM4X	WHITETOP MT	103.5	VA
N8HZ	HUNTINGTON		WV
448.0250 / 443.0250			
W4CML	ATLANTA	127.3	GA
KD4IEZ	DUBLIN	156.7	GA
KE4OOL	LEXINGTON	123.0	KY
WB4IKY	GIBSONVILLE	107.2	NC
N4UAG	KNOXVILLE		TN
KA8YEZ	WHEELING	77.0H	WV
448.0500 / 443.0500			
NE1H	SNELLVILLE		GA
W1WBT	SAURATOWN MTN	136.5	NC
WB4PUB	#NASHVILLE	107.2	TN
N8FWL	BECKLEY	123.0	WV
448.0750 / 443.0750			
WA4EOC	CANTON		GA
WX4EMA	#MACON	156.7	GA
WR4BEG	SOPHIA/RANDLEMAN		NC
KA4AZQ	KNOXVILLE	100.0	TN
KC8SDN	RICHWOOD	123.0	WV
448.1000 / 443.1000			
N4KHQ	DAHLONEGA	100	GA
N4WJS	OWENSBORO	110.9	KY
KE4QOX	SAURATOWN MT	88.5	NC
KF4TNP	BRICK CHURCH	167.9	TN
KA4JXT	MEMPHIS	107.2	TN
KN4YM	POWHATAN		VA
KE4QOX	BECKLY/OAK HILL	107.2	WV
448.1250 / 443.1250			
KG4PUW	STOCKBRIDGE	100.0	GA
KU4ML	FOSTER		KY
KB4PQA	CRAB CREEK TWP		NC
WA4NNA	RALEIGH		NC
KT4OL	CHATTANOOGA		TN
KT4OL	CHATTANOOGA		TN
KC4PRD	GOODLETTSVILLE	107.2	TN
KA4JXT	HICKORY VALLEY	107.2	TN
KA4JXT	MEMPHIS		TN
WB3T	MARION	103.5	VA
448.1500 / 443.1500			
KF4XH	BYRON		GA
W4PME	ROSWELL/BELL	100.0	GA
KD4PBC	MIDDLESBORO	146.2	KY
W4HG	SALISBURY	136.5	NC
KD4PBC	GATLINBURG	146.2	TN
KD4PBC	TRI-CITIES	146.2	TN
K8MHR	ST. ALBANS		WV
448.1750 / 443.1750			
KE4AIS	CARTERSVILLE	100.0	GA
KC4COV	FLORENCE	131.8	KY
KD4HLH	LAURENS	146.2	SC
KG4GCZ	MT PLEASANT	107.2	TN
WG8S	PATRICK SPRINGS		VA
448.2000 / 443.2000			
K4YC	IVEY	88.5	GA
KD4APP	PINE LOG MT	103.5	GA
KC4FWC	STANFIELD	77.0	NC
KC4WDI	YOUNGSVILLE	88.5	NC
W4WC	GREENEVILLE	100.0	TN
W4BS	MEMPHIS	107.2	TN
KB4YKV	AMELIA		VA
448.2250 / 443.2250			
WA4DIW	JONESBORO		GA
KD4TAH	FRANKLIN		KY
KS4TO	WADDY		KY
W8EMX	HUNTERSVILLE	110.9	NC
N4ZCM	RALEIGH		NC
W8LG	BECKLEY/BOLT		WV
448.2500 / 443.2500			
KC4JNN	BISKEY MTN	100.0	GA
KJ4VF	DORTON		KY
N4JEX	CHINA GROVE	136.5	NC
448.2750 / 443.2750			
KC4KLW	ROCKMART	179.9	GA
KF4TLA	ASHEVILLE	103.5	NC
WA4WTX	ROUGEMNT/RED MT	100.0	NC
WA4AWI	LEBANON	107.2	TN
448.3000 / 443.3000			
WW4GA	ATHENS		GA
KB5DZJ	WIGGINS	167.9	MS
KB4TOH	COLUMBIA	131.8	NC
AI4M	FOREST CITY	114.8	NC
KA7UEC	COLLIERVILLE	107.2	TN
WA4KJH	GATLBG/COVE MT	127.3	TN
WS8L	CHARLESTON	123.0	WV
448.3250 / 443.3250			
N4JMD	STOCKBRIDGE		GA
WA4CMO	FRANKFORT		KY
KF4IXK	KERNERSVILLE	131.8	NC
WB3T	DISMAL PEAK	103.5	VA
448.3500 / 443.3500			
N4YYD	FT. MT/CHATSWTH	71.9	GA
K4ULW	LOUISVILLE SW		KY
W5CJR	PETAL		MS
N4JEX	KANNAPOLIS	136.5	NC
W4IQQ	GRNVLE/PARIS MT		SC
WA4AWI	DEASON	107.2	TN
K4GX	ROGERSVILLE		TN
N8LHL	ROCKPORT	123.0	WV
448.3750 / 443.3750			
KC4AQS	JASPER	100.0	GA
W1IFL	RALEIGH		NC
KF4ZIG	INDEPENDENCE	103.5	VA
KC8SDN	RICHWOOD	123.0	WV
448.4000 / 443.4000			
WB4GWA	CONCORD	118.8	GA
K4XYZ	BUCKHORN LAKE	103.5	KY
N0SU	BRYSON CITY	151.4	NC
WB4GUG	SAURATOWN MT	107.2	NC
AD4DN	WILMINGTON	88.5	NC
AC4WW	AIKEN	107.2	SC
WA4QWW	MEMPHIS		TN
448.4250 / 443.4250			
KD4CPO	BRUNSWICK		GA
AE4JO	ETOWAH VALLEY	103.5	GA
KB4MDE	JASPER		GA
KD4RTR	MILLARD		KY
WA1YYN	RES. TRIANGLE PK	156.7	NC
448.4500 / 443.4500			
WC4RAV	COBB COUNTY	103.7	GA
KB4VAK	HIGH PT/LOOKT MT	77.0	GA
AE4NU	COX'S CREEK	151.4	KY
KZ4G	FLATWOODS	107.2	KY
KC5LCW	GAUTIER	123.0	MS
N5WXD	WEST POINT		MS
N4VOZ	STATESVILLE		NC
KE4PJW	NASHVILLE	107.2	TN
KC4RBA	LYNCHBURG	186.2	VA
448.4750 / 443.4750			
W4EEE	BOGART		GA
KC4COV	BEAVERLICK	131.8	KY
KE4UIU	CANTON	156.7	NC
W4UNC	CHAPEL HILL	131.8	NC
WZ4SC	FORT MILL		SC
KB8YDD	RICHWOOD		WV
448.5000 / 443.5000			
N4MTA	MARIETTA		GA
WD9EQC	LOUISVILLE		KY
KF4BRO	MAYSVILLE	123.0	KY
WB4UBY	META		KY
W5SAR	WAYNESBORO		MS
AB4JJ	WEST JEFFERSON	107.2	NC
N5CWH	LEESVILLE	162.2	SC
KD4CWB	KNOXVILLE		TN
448.5250 / 443.5250			
N4PQR	KNOXVILLE	114.8	GA
KC4KLW	ROME	179.9	GA
KD4EVB	BURLINGTON	107.2	KY
N4EUX	LENOIR/CAJAH MT		NC
KD4MJO	SOUTH HILL	100.0	VA
448.5500 / 443.5500			
KK4IN	DACULA		GA
KE4WLP	GRIFFIN		GA
N4HZX	GRAEFENBURG		KY
W5SAR	WAYNESBORO		MS
KC4XE	WILKESBORO		NC
WB4LRD	CHATTANOOGA		TN
N3ELM	WILLIAMSBURG	100.0	VA
448.5750 / 443.5750			
KD4NTF	CEDARTOWN	107.2	GA
WA4SSJ	JERSEY	103.5	GA
NU5O	SOUTHAVEN	77.0	MS
WA4PXV	AIR BELLOWS GAP		NC
KA6UHV	COLLEGEDALE	131.8	TN
W4LYR	LEBANON	100.0	TN
KC8AUY	RICHWOOD		WV
448.6000 / 443.6000			
KA5WZY	ATLANTA	146.7	GA
KA4UHL	NANCY	100.0	KY
W5PPB	RAYMOND	77.0	MS
N4DWU	MT MITCHELL	114.8	NC
W4TLB	BIG SANDY	114.8	TN
KC8PFI	CEREDO		WV
448.6250 / 443.6250			
K4MDS	GRAY		GA
KF4OYP	JASPER	100.0	GA
KF4NTQ	GEORGETOWN		KY
AA5RZ	JACKSON, EAST		MS
W4EUS	RES. TRIANGLE PK		NC
KE4EAN	COWPENS	136.5	SC
KA7UEC	COLLIERVILLE	107.2	TN
AD4QG	EVA		TN
KC4MJN	JAMESTOWN	100.0	TN
WZ8E	BLUEFIELD	100.0	WV
KC8SDN	RICHWOOD	123.0	WV
448.6500 / 443.6500			
W4CML	ATLANTA	123.7	GA
N4WJS	OWENSBORO	110.9	KY
W5NRU	LAUREL	100.0	MS
K4AIH	ANDRWS/ROBINSVL		NC
KD4WAR	BURNSVILLE		NC
KG4BTN	GREENSBORO	88.5	NC
WA4AXH	NOLENSVILLE		TN
KG4NJA	NASA LANGLEY	173.8	VA
KC8SDN	CRAIGSVILLE	123.0	WV
448.6750 / 443.6750			
N4GWO	BARNESVILLE		GA
K4WOC	CALHOUN	100.0	GA
KD4FRP	CROWDER'S MT		NC
AD4LR	PARIS		TN
KD4IBW	SEVIERVILLE	100.0	TN
K4YD	BENT MT	107.2	VA
448.7000 / 443.7000			
W4TIY	DALLAS		GA
KY4KY	BROOKS	151.4	KY
K5PN	HATTIESBURG	136.5	MS
N5WDG	RIDGELAND	77.0	MS
KE4QOX	KVILLE/H POINT	103.5	NC
WA4LBT	LOCUST		NC
N4JEH	NASHVILLE	107.2	NC
K4VVM	BARTLETT	107.2	TN
AG4VW	CENTERVILLE	100.0	TN
KB4OTK	LAFOLLETTE		TN
KB8UJG	PRINCETON	123.0	WV
448.7250 / 443.7250			
KB2DZA	CONYERS	77.0	GA
KE5LT	PICAYUNE	179.9	MS
K4GWH	GRAHAM	156.7	NC
KC4KPJ	CLOVER	127.3	SC
W1ARN	NASHVILLE	107.2	TN
KG4KIJ	SWEETWATER		TN
N8SNY	WELCH		WV
448.7500 / 443.7500			
K4GO	COVINGTON	146.2	GA
KK4WH	WHITESBURG	107.2	KY
KC4ZTI	GASTONIA/CRWDR		NC
WB4EDS	ALAMO		TN
N0LOG	CITY UNKNOWN	88.5	TN
WA4OHX	HAMPTON	100.0	VA
KC3FB	PATRICK SPRINGS	77.0	VA
448.7750 / 443.7750			
N4YF	SUGAR HILL	82.5	GA
KF4INN	VERSAILLES		KY
WB4SRV	CLAREMONT	118.8	NC
KD4JFN	HAW RIVER	107.2	NC
KF4Y	LAURENS	141.3	SC
KA4MHJ	SPENCER	123.0	TN
448.8000 / 443.8000			
N4NFP	ATLANTA/MARIETTA	151.4	GA
K4MSU	MURRAY	110.9	KY
N5IAT	NATCHEZ		MS
KC4QZL	MORGANTON		NC
W4HNK	MT PLEASANT	123.0	SC
KA4AZQ	KNOXVILLE	100.0	TN
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
W4POX	PORTSMOUTH		VA
KA8OTX	OAK HILL		WV
448.8250 / 443.8250			
KD4HPD	STONE MTN	123.0	GA
KD4EVB	FALMOUTH	107.2	KY
K4AVY	PRESTONSBURG	127.3	KY
N5ZNS	GLOSTER		MS
KC4FWC	#ROCKINGHAM	77.0	NC
KC4KRM	SHELBYVILLE		TN
KF4RMT	MARTINSVILLE	107.2	VA
WB4KZI	PETERSBURG		VA
448.8500 / 443.8500			
K4PLM	#WALESKA	192.8	GA
KC4YOZ	DALLAS CHLT	100.0	NC
WA4US	WILMINGTON		NC
N4ULM	FRANKLIN		TN
KE4OVN	LANEVIEW	107.2	TN
KQ4I	DANVILLE		VA
KB8TGK	HUNTINGTON	88.5	WV
448.8750 / 443.8750			
KD4LXT	ATLANTA		GA
KC4KPW	PINEY KNOB	103.5	NC
KD4KPV	MCKENZIE		TN
W4DUM	WILLIS		VA
W8SP	FAIRMONT		WV
448.9000 / 443.9000			
K4RHJ	FLOWERY BRANCH	100.0	GA
KC4KZT	DAVID	167.9	KY
W4UA	HIGH POINT		NC
W4GWD	GREENWOOD	107.2	SC
KD4HII	CHATTANOOGA		TN
W4KOC	WHITE HOUSE	107.2	TN
448.9250 / 443.9250			
KQ4XL	MONROE	123.0	GA
W4BAB	RINGGOLD		GA
N4EQT	LAWRENCEBURG	107.2	KY
KE4KNZ	MCEWEN		TN
K4DHT	MOUNTAIN CITY	103.5	TN
KF4AGO	SOUTH BOSTON		VA
448.9500 / 443.9500			
KA4UFM	DECATUR	110.9	GA
W4LJM	CANE VALLEY		KY
N5ZDF	HAZLEHURST	100.0	MS
KD4OWV	CHARLOTTE		NC
WA1YYN	HILLSBOROUGH	114.8	NC
WA4US	WILMINGTON		NC
KD4OBX	KNOXVILLE		TN
N4ER	MEMPHIS		TN
W4UOT	WINCHESTER	107.2	TN
448.9750 / 443.9750			
KB4NPO	REX		GA
K4TDO	HAZARD	103.5	KY
N4KWT	LOUISVILLE	100.0	KY
WA4WGY	MAYODAN		NC
N4VDE	LIBERTY	103.5	SC
WR3S	LAVERGNE		TN
KA4WJS	ROCKWOOD		TN
N8FIP	WESTON		WV
449.0000 / 444.0000			
WB4QDX	LAWRENCEVILLE	127.3	GA
WD4AFY	#SAVANNAH		GA
AD4RU	IRVINE		KY
KG5YV	CLINTON	100.0	MS
K4JEQ	HICKORY		NC
KI4RK	SELMA		NC
W4ULH	FLORENCE		SC
WD4BKY	GALLATIN		TN
KD4CWB	KNOXVILLE	100.0	TN
W4CAR	CHESAPEAKE	162.2	VA
KC8IT	MULLENS		WV
449.0250 / 444.0250			
W4CML	LAWRENCEVILLE	127.3	GA
AE4PO	WAYCROSS	141.3	GA
KD4JFN	HIGH POINT	107.2	NC
K4CRS?	HARRIMAN		TN
K4RDK	MEMPHIS		TN
WB3T	ABINGDON	103.5	VA
449.0500 / 444.0500			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
KE4NLL	SALYERSVILLE	127.3	KY
KB4PTJ	WILLIAMSBURG	100.0	KY
N4JDW	WILMINGTON	88.5	NC
W1WBT	LAKE WYLIE	136.5	SC
N4PYI	NASHVILLE	107.2	TN
WB3T	FANCY GAP	103.5	VA
KB4OLM	STUARTS DRAFT		VA
449.0750 / 444.0750			
W4FWD	CARROLLTON	131.8	GA
KB8SBN	INDEPENDENCE	110.9	KY
KD4BOH	ROCKPORT	77.0	KY
K4CCR	ANDSN MT/DENVER	88.5	NC
N4JDW	BURGAW	88.5	NC
WA4TCC	SCOTLAND NECK	156.7	NC
KG4JJB	LEWISBURG	107.2	TN
KC4PDQ	MARYVILLE	100.0	TN
KF4ATY	MEMPHIS	107.2	TN
KD4TBC	GRETNA/SMITH MT	123.0	VA
K8OJC	HURRICANE		WV
449.1000 / 444.1000			
WR4CW	ATLANTA/GLENRI	100.0	GA
W4WSM	BOWLING GREEN		KY
N4UL	LOUISVILLE	173.8	KY
KB5BRZ	MERIDIAN	131.8	MS
WR4AGC	DURHAM		NC
KC4AC	LANCASTER		SC
W4AM	CHATTANOOGA		TN
KE4FH	JOHNSON CITY		TN
KA4JXT	MEMPHIS		TN
KE4CKJ	STAUNTON/EL KNOB	131.8	VA
KB4ZIN	WILLIAMSBURG		VA
N8ILO	PARKERSBURG (OH)		WV
449.1250 / 444.1250			
AF4PX	KINGSTON		GA
KE4PVE	PENDERGRASS	100.0	GA
KB8QLC	LEXINGTON	88.5	KY
WB4GUG	MCLEANSVILLE		NC
KC4ECD	LAFAYETTE	107.2	TN
KA4JXT	MEMPHIS		TN
N8LVE	BECKLEY		WV
N8RCG	KEYSER	103.5	WV
449.1500 / 444.1500			
W4PME	ATLANTA/BELL	100.0	GA
WB4IVB	MIDDLESBORO	100.0	KY
WD5BJT	CLERMONT HARBR	77.0	MS
WB5YCR	NEW ALBANY		MS
W4ATC	CLAYTON	100.0	NC
AG4EI	GASTONIA/CRWDR		NC
W4GL	SUMTER	123.0	SC

SERA REPEATER INDEX LISTINGS BY FREQUENCY - Concludes

KE4LQY	CHATTANOOGA		TN
AF4TZ	NASHVILLE	107.2	TN
KI4ZR	LEXNGTN/ROCK MT		VA
449.1750 / 444.1750			
KE4PVE	COVINGTON	100.0	GA
KC4COV	COVINGTON	131.8	KY
W4FBC	LILLINGTON	118.8	NC
W2GLJ	GERMANTOWN		TN
KC4NNN	KNOXVILLE		TN
K4NRW	ROANOKE	103.5	VA
N8FMD	CLARKSBURG	103.5	WV
449.2000 / 444.2000			
WA4DB	#GAINESVILLE	107.2	GA
KR4PF	MARION	100.0	KY
KD4RTR	PIKEVILLE		KY
WB4YNF	AHOSKIE		NC
KE4QEA	#KING/SAURATOWN	100.0	NC
WA4US	WILMINGTON		NC
KF4GHC	COLUMBIA	156.7	SC
KD4HII	CHATTANOOGA		TN
K4MFD	GREENEVILLE	173.8	TN
N4ARK	NASHVILLE		TN
WB4VWR	ENON		VA
N8ZVK	FLATWOODS		WV
449.2250 / 444.2250			
KE4SJO	WOODSTOCK		GA
KF4RBD	RINEYVILLE	151.4	KY
K4GWH	GREENSBORO	146.2	NC
N4ARK	NASHVILLE	114.8	TN
WV8AR	CHARLESTON	123.0	WV
449.2500 / 444.2500			
W4BOC	DECATUR		GA
KF4DC	GLASGOW/CVCTY		KY
WA4KNI	HENDSVL/BERWLW		NC
N4EWS	LOUISBURG	88.5	NC
K4SER	WILLIAMSTON	131.8	NC
WA4PAJ	BARTLETT		TN
WQ4E	GREENBRIER		TN
WA4TFZ	CHARLOTTESVILLE	151.4	VA
WG4R	MEADOWS OF DAN	103.5	VA
N8ZAR	BUCKHANNON		WV
449.2750 / 444.2750			
K4JLG	CORNELIA	100.0	GA
KE4BB	CULLODEN	123.0	GA
KF4IFC	CORBIN	79.7	KY
KU4MJ	DAWSON SPRINGS		KY
NC4BJ	BUIES CREEK	131.8	NC
W4NC	WINSTON-SALEM		NC
W4GZX	CLEVELAND		TN
WA4AXH	LEBANON		TN
W4RDF	ENON	114.8	VA
KC8CSE	DUNMORE	123.0	WV
449.3000 / 444.3000			
KC4GZX	ATHENS/CRAWFORD	127.3	GA
KC4YNY	HOGANSVILLE		GA
KD4RTR	ELKHORN CITY	167.9	KY
KG4JNM	LOUISVILLE	156.7	KY
N4DRL	BYHALIA		MS
KC5RC	HEIDELBERG	100.0	MS
WA4VTX	ELIZABETH CITY	131.8	NC
W4ZO	MONROE	100.0	NC
N4MNH	CHARLESTON		SC
WB4GBI	KNOXVILLE		TN
WA4BZU	NASHVILLE	107.2	TN
K4BW	ACCOMACK	156.7	VA
KI4ZR	LEXINGTON		VA
449.3250 / 444.3250			
KF4BMG	MARIETTA	79.7	GA
KC4FWC	BLADENBORO	77.0	NC
KF4AUF	HOLLY SPRINGS	100.0	NC
W4NYR	SHELBY		NC
WA4BZU	CLARKSVILLE	107.2	TN
KB4KSL	KNOXVILLE		TN
WB3T	ROANOKE	103.5	VA
KA8ZXP	GLENVILLE		WV
449.3500 / 444.3500			
W4CBA	GAINESVILLE	131.8	GA
KE4PVE	NEWNAN	100.0	GA
WR4SG	VALDOSTA	141.3	GA
K4CO	WALTON	123.0	KY
K4KAY	CHARLOTTE	118.8	NC
WB4IKY	GIBSONVILLE	107.2	NC
KR4LO	GRANTSBORO		NC
WD4BKY	GALLATIN	114.8	TN
KD4CLA	PIGEON FORGE	156.7	TN
N4CH	BEDFORD		VA
WB8YST	CHARLESTON	107.2	WV
449.3750 / 444.3750			
KB4IZF	JASPER	103.5	GA
KD4DAR	PIKEVILLE		KY
KB5HAV	PEARL	88.5	MS
N4DTR	FRANKLIN	131.8	NC
KB4WGA	HENDERSON	100.0	NC
KB4YTM	HUNTINGDON		TN
KR4BT	SPARTA	123.0	TN
N4OWU	FANCY GAP	107.2	VA
449.4000 / 444.4000			
WB4ULJ	HAMILTON		GA
WB4HJG	LULA	71.9	GA
KD4YGK	SHEPHERDSVILLE	203.5	KY
KC4COV	WITHAMSVILLE	131.8	KY
WB4YZF	FAYETTEVILLE	100HZ	NC
WA4KOG	MEMPHIS		TN
N4PYI	MT JULIET		TN
K4EAJ	OAK RIDGE	82.5	TN
N8LVE	ALDERSON/SAM BLK	100.0	WV
449.4250 / 444.4250			
K4PE	HELEN	127.3	GA
KD4EVB	DRY RIDGE	118.8	KY
KF4QZN	MORGANTOWN	179.9	KY
N4HAJ	FOUNTAIN	88.5	NC
NC4UC	MONROE	94.8	NC
KC4NNN	KNOXVILLE		TN
WA4ISI	ALTAVISTA	100.0	VA
KB8TJH	SHIRLEY		WV
449.4500 / 444.4500			
W4DOC	ATLANTA	146.2	GA
KO4OT	SIMPSONVILLE	100.0	KY
KD5AHI	ABERDEEN		MS
KB5LCL	JACKSON	141.3	MS
W4CQ	CHARLOTTE		NC
WR4AGC	HILLSBOROUGH	100.0	NC
N4DTR	WAYNESVILLE		NC
WA4US	WILMINGTON		NC
W4CAT	GALLATIN	107.2	TN
WJ9J	SODDY DAISY		TN
W8MOP	BLUEFIELD		VA
449.4750 / 444.4750			
KD4GEY	FOLKSTON		GA
N4CLA	SWEAT MT/MARIETT		GA
KF4QZN	MAMMOTH CAVE	179.9	KY
AD4BI	PIKEVILLE		KY
KG4BTN	GREENSBORO	107.2	NC
N1GMV	ZEBULON	88.5	NC
N4ZKR	SUMMITVILLE	107.2	TN
AD4ZK	NORFOLK	127.3	VA
449.5000 / 444.5000			
W4MM	ALBANY		GA
KD4GPI	ATLANTA	110.9	GA
N4BZJ	DALTON	118.8	GA
KD4GMH	MANCHESTER	103.5	KY
W5LRG	MERIDIAN	107.2	MS
W4PAR	LEXINGTON	107.2	NC
N4JEH	TARBORO	100.0	NC
K4NOC	BISHOPVILLE	123.0	SC
KE4CCB	BLUFF CITY	77.0	TN
K4DAV	COOKEVILLE		TN
N4WAH	MEMPHIS		TN
K4CQ	LYNCHBRG/TOB MT	136.5	VA
449.5250 / 444.5250			
W4GR	SNELLVILLE	82.5	GA
KJ4VF	GRETHEL		KY
N5NNI	NEW HEBRON		MS
W4RNC	RALEIGH	82.5	NC
WA4ZRS	WAXHAW	94.8	NC
N4LV	MYB BCH/BRKSVIL		SC
KD4IBW	KNOXVILLE	100.0	TN
WA4BGK	NASHVILLE	107.2	TN
449.5500 / 444.5500			
WB4JEH	CONYERS	151.4	GA
K4DC	LEWISPORT		KY
KC4DUU	LEXINGTON		KY
K4JDR	BENSON	100.0	NC
N4GAS	GASTONIA/SPCR MT		NC
KA4BQM	ROANOKE RAPIDS	192.8	NC
KG4BZN	WALTERBORO	123.0	SC
NQ4Y	COOKEVILLE	107.2	TN
WF4Q	MCNAIRY	107.2	TN
WA4PCD	NASHVILLE		TN
KB4WTP	COPPER RIDGE	103.5	VA
W4QR	HAMPTON	167.9	VA
K4CQ	WINTERGREEN	136.5	VA
449.5750 / 444.5750			
W4SCR	DOUGLASVILLE	88.5	GA
N4MVY	PHELPS		KY
KC5CLM	PORT GIBSON	141.3	MS
KC4FWC	BOONE/RICH MT	77.0	NC
W4BAD	DURHAM	88.5	NC
N4HAJ	KINSTON	88.5	NC
K2PJ	MYRTLE BEACH	85.4	SC
W4BBB	KNOXVILLE/RACK	100.0	TN
WA4WCK	NASHVILLE		TN
449.6000 / 444.6000			
W4PSZ	FAYETTEVILLE	77.0	GA
WA4NKL	QUITMAN	127.3	GA
KF4WMM	BRUSHY FORK	88.5	KY
N4NMC	LOUISVILLE	151.4	KY
KC4FIE	MADISONVILLE		KY
WA4SJH	SPRINGFIELD		KY
KB5CO	JACKSON	100.0	MS
W4BFB	CHARLOTTE	100.0	NC
NO4EL	OXFORD		NC
KT4YW	NO. CHARLESTON		SC
WS4S	COOKEVILLE	107.2	TN
WA4AUX	PROSPECT	118.8	TN
KA8TCF	WESTON		WV
449.6250 / 444.6250			
K4EDN	BONAIRE	82.5	GA
W4CBA	CUMMING	123.0	GA
KC5BMJ	KINGSLAND	118.8	GA
W1BPP	MOULTRIE	123.0	GA
KB4QFL	HAWESVILLE		KY
KE4ISW	RICHMOND	192.8	KY
AB5MU	NETTLETON	192.8	MS
N5OCF	RICHTON		MS
WB4DVN	LUMBERTON		NC
WD4EOG	CLEMSON UNIV.	156.7	SC
WT4E	COLLIERVILLE	107.2	TN
KD4TUD	JEFFERSON CITY		TN
WA4TOA	NASHVILLE	107.2	TN
WZ8E	BLUEFIELD		VA
KF4LWH	SOUTH BOSTON		VA
449.6500 / 444.6500			
K4YC	IVEY		GA
N4IBW	SMYRNA		GA
WB4FUR	STENNIS SPC CEN		MS
N5NBG	WALLS		MS
NE4J	MIDDLESEX	179.9	NC
KJ4HF	SALISBURY	88.5	NC
WA4US	WILMINGTON		NC
N4UHF	LAKE MURRAY		SC
WB4NKM	GREENEVILLE	100.0	TN
W4CAT	SHRT MT/MURFREB	107.2	TN
N4EHJ	RICHMND/CHLTVL		VA
449.6750 / 444.6750			
KC4CBQ	HIAWASSEE	186.2	GA
KN4YZ	TYRONE/PTC	77.0	GA
KC4VYX	ROBINSON CREEK		KY
KF4AWA	SALVISA	203.5	KY
N5PS	GREENVILLE	100.0	MS
W4WBT	CHARLOTTE		NC
KE4JDP	#JACKSONVILLE	88.5	NC
KD4RAA	RALEIGH	100.0	NC
W4GS	MYR BCH/CONWAY	85.4	SC
WA4PCD	NASHVILLE		TN
WD4MIZ	NORFOLK	107.2	VA
K4IJ	PEARISBURG	103.5	VA
AB8WB	GASSAWAY	123.0	WV
449.7000 / 444.7000			
WB4SBT	BYRON	103.5	GA
WD4LUQ	DALLAS	77.0	GA
KF4BJM	VALDOSTA	141.3	GA
WB4JM	BOWLING GREEN	136.5	KY
AD5IT	GRENADA	107.2	MS
NC5Y	JACKSON		MS
KD4BGD	LUMBERTON	114.8	NC
N4JEH	ROCKY MOUNT	107.2	NC
AE4GA	STATESVILLE	94.8	NC
AG4UW	CENTERVILLE	107.2	TN
KF4VDX	MARYVILLE	127.3	TN
N4ZKR	PALMER	107.2	TN
K4AU	DANVILE/WHT OAK		VA
N4WWB	GATE CITY		VA
WB8CQV	HERNSHAW	203.5	WV
K8LG	MORGANTOWN		WV
449.7250 / 444.7250			
KS4QM	SUMMERVILLE	123.0	GA
KD4AOZ	WATKINSVILLE	123.0	GA
KY4K	HENDERSON	203.5	KY
KE4ISR	LEXINGTON		KY
W4ZCD	HICKORY FLAT	179.9	MS
KC4FWC	BLADENBORO	77.0	NC
KD4MMP	WINSTON-SALEM	107.2	NC
KC4KPJ	ROCK HILL	127.3	SC
WA4AKM	FRANKLIN	107.2	TN
WB0TMC	JACKSON	107.2	TN
N4CKB	SEVIERVILLE	123.0	TN
KF8FO	LEWISBURG	103.5	WV
449.7500 / 444.7500			
KC4ELV	CONYERS	162.2	GA
N4ZRF	LAKEMONT		GA
KC8ERN	#ASHLAND	88.5	KY
KE4AIF	HOPKINSVILLE	103.5	KY
WB9SHH	MONTICELLO		KY
KD5GVU	STARKVILLE		MS
NC4GC	GASTONIA		NC
KD4JFN	PITTSBORO	146.2	NC
K4TC	HENDERSON		TN
KF4VWJ	HIXSON	100.0	TN
N4PYI	MT JULIET	156.7	TN
WD4KQI	FOREST		VA
449.7750 / 444.7750			
N4NEQ	ATLANTA/MARIETTA	151.4	GA
N4MXC	COCHRAN		GA
N4IWZ	ALLEN	123.0	KY
KC4UPE	NICHOLASVILLE	167.9	KY
K4JDR	CARY	100.0	NC
KR4EX	OLD FORT		NC
WA4AKM	GALLATIN	107.2	TN
KF4UCI	#CHARLOTTEVILLE		VA
WD4KZK	SLINGS GAP	107.2	VA
449.8000 / 444.8000			
WA4ASI	COVINGTON	88.5	GA
W4BEJ	ELIZABETHTOWN		KY
KB5CO	JACKSON		MS
WB4PMQ	GREENVILLE	131.8	NC
KF4LUC	HICKORY	94.8	NC
K4YEC	REIDSVILLE	107.2	NC
KD4QMS	SOUTHERN PINES	118.8	NC
K0JXI	MEMPHIS		TN
KD4LP	#MORRISTOWN		TN
N4PYI	NASHVILLE	110.9	TN
KB4MIC	OILVILLE		VA
WV8B	BECKLEY/OAK HILL	100.0	WV
W8CUL	MORGANTOWN		WV
449.8250 / 444.8250			
W4DOC	ATLANTA	146.2	GA
KC4UPE	BEATTYVILLE	192.8	KY
KC4VXR	SALEM	100.0	KY
KB5DSN	AMORY		MS
KD4RAA	MOREHEAD CITY	100.0	NC
KF4UY	MT AIRY/FSH PK	100.0	NC
K4GWH	RALEIGH	146.2	NC
KE4FGW	MARYVILLE	100.0	TN
K5FE	MEMPHIS	107.2	TN
N4PYI	SMITHVILLE	107.2	TN
WA4ZBP	STAUNTON	131.8	VA
449.8500 / 444.8500			
N4BZJ	DALTON		GA
N4YXL	GREENSBORO	103.5	GA
KG4OGC	HINESVILLE		GA
KF4QZN	HORSECAVE	179.9	KY
AA4NI	NEBO		KY
AB5DU	INDIANOLA	136.5	MS
KC5LXF	PINOLA		MS
W4CQ	CHARLOTTE		NC
W4BAD	RALEIGH	100.0	NC
WN4Z	ROCKY MOUNT	131.8	NC
K4GMP	WILMINGTON	88.5	NC
WB4NNX	HOHENWALD	100.0	TN
WD4MWQ	MCMINNVILLE		TN
K7AG	MEMPHIS	107.2	TN
KF4VDF	POUND	103.5	VA
AB4SF	RICHMOND		VA
WD4KZK	ROANOKE/READ MT	107.2	VA
WB8ZER	HUNTINGTON/CHAS	131.8	WV
449.8750 / 444.8750			
KE4UAS	MCDONOUGH	82.5	GA
KE4RJI	TIFTON		GA
KC4UPE	SALVISA	167.9	KY
N5HTQ	MCCOMB	100.0	MS
KD4RAA	RALEIGH	100.0	NC
WB4U	WINGATE	127.3	NC
KD4UWA	CHAT/MNTLAKE MT	156.7	TN
WA4AKM	NASHVILLE	107.2	TN
KB4WTP	BIG A MTN		VA
449.9000 / 444.9000			
KD4BOO	AUGUSTA		GA
N4KHQ	DAHLONEGA		GA
WB4IVB	CORBIN	100.0	KY
W4YWH	HIGHLAND HEIGHTS	123.0	KY
KY4SP	HUDSON	179.9	KY
W4EWN	NEW BERN	100.0	NC
W4EJ	WILSON	179.9	NC
WB4MMI	RAMER		TN
W4LYR	WATERTOWN	100.0	TN
WA4CQK	FANCY GAP	100.0	VA
N8SCS	BELINGTON	141.3	WV
KE4QOX	LOGAN	107.2	WV
449.9250 / 444.9250			
WA4NNO	ATLANTA		GA
WB4NFG	IRWINTON	77.0	GA
N4PJR	JESUP	141.3	GA
KY4X	GLASGOW		KY
KO4LI	OLIVE HILL		KY
N5PYQ	SOUTHAVEN	107.2	MS
WB5TTE	VICKSBURG		MS
KB4WGA	DURHAM	100.0	NC
K4OBX	HATTERAS ISLAND	131.8	NC
N4XRY	MOUNT AIRY		NC
N4NTO	TARBORO	118.8	NC
AC4RZ	EASLEY/SAS MTN	103.5	SC
KI4CB	GEORGETOWN		SC
WA4AKM	COLUMBIA	107.2	TN
N4VIH	DOVER		TN
KD4TZD	KNOXVILLE		TN
KD4FWS	FANCY GAP	100.0	VA
WB8BON	ROANOKE/TINKER M		VA
449.9500 / 444.9500			
W4TL	CLERMONT	131.8	GA
WR4MG	PERRY		GA
N4DUE	LEXINGTON		KY
WB5YGI	PHILADELPHIA		MS
N5VGK	TUPELO	192.8	MS
WA1WXL	CHARLOTTE	136.5	NC
KF4DWV	GREENSBORO	100.0	NC
KF4HFQ	ROLESVILLE	88.5	NC
KD4PBC	CHARLESTON	103.5	SC
KF4GP	CLARKSVILLE	167.9	TN
W4EYJ	CROSSVILLE	118.8	TN
K4GX	GREENEVILLE		TN
WB4NNE	MEMPHIS		TN
WA4KXV	VIRGINIA BEACH		VA
WB8CQV	SO. CHARLESTON	203.5	WV
449.9750 / 444.9750			
WA4YNZ	ATLANTA		GA
K4TVE	BRUNSWICK		GA
W3LAP	COCHRAN	77.0	GA
WA4YNZ	#CUMMING		GA
KC4QK	ASHLAND	107.2	KY
WB4CWF	NICHOLASVILLE		KY
N5PS	O'REILLY	100.0	MS
KE4QAP	ASHEBORO		NC
N4JEH	CASTALIA	107.2	NC
W4YMI	NEWPORT CCARS		NC
KC4ZTJ	POLKVILLE		NC
WM3O	ORANGEBURG		SC
KQ4E	MORRISTOWN		TN
WA4AKM	NASHVILLE	107.2	TN
N4AZJ	PEARISBURG	103.5	VA
N8EKT	WHEELING		WV
443.7750 / 448.7750			
W4RKC	WINCHESTER	146.2	VA
439.2500 / 911.2500			
KA5NOJ	GAUTIER		MS
426.2500 / 923.2500			
K4CQ	LYNCHBURG		VA
439.2500 / 923.2500			
KY4ATV	#LEXINGTON		KY
900 MHZ			
907.5000 / 919.5000			
WD4KZK	ROANOKE/POOR MT	107.2	VA
908.5000 / 920.5000			
KF4TNP	LEWISBURG		TN
908.8000 / 920.8000			
KQ4E	MORRISTOWN		TN
909.0000 / 921.0000			
K4CQ	LYNCHBRG/TOB MT	100.0	VA
909.1000 / 921.1000			
WA1ZMS	BEDFRD/APL ORCH	100.0	VA
910.2500 / 923.0000			
WA4VHP	#SAVANNAH		GA
K4ZGA	NASHVILLE		TN
902.4875 / 927.4875			
KB0Y	VALDOSTA	141.3	GA
N4JNE	FANCY GAP	100.0	VA
902.5000 / 927.5000			
KG4LMT	ATLANTA	223.0	GA
902.5500 / 927.5500			
WA4TOG	BEAR WALLOW	131.8	NC
902.6125 / 927.6125			
KB4WGA	DURHAM	100.0	NC
902.6625 / 927.6625			
N2QJI	CONCORD	141.3	NC
W4FAL	RALEIGH	156.7	NC
N4DTR	WAYNESVILLE	131.8	NC
902.6875 / 927.6875			
N8EKA	LAWRENCEVILLE	141.3	GA
902.7250 / 927.7250			
KA4KMG	LEXINGTON	DCS75	KY



GEORGIA

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Is it July already? I really enjoyed the Memorial Day holidays at the annual Scott family reunion in MO (You're right, I should have been home wrapping up this column).

SERA AT GAINESVILLE

The **Lanierland Amateur Radio Club** (LARC), plus the GA 14C (communications) and Cleanup/Recovery components of the **Southern Baptist Convention Emergency Relief** team, pulled together a record-setting Gainesville hamfest for the weekend of 7/12. GA 14C handled repeater talk-in. A LifeSouth bloodmobile joined the hamfest, and did a good business from the parking lot. Jeff W4KMB and I ran the SERA table. By the way, Terry W4TL is the LARC president.

ARES REPEATER NETS

A reader has suggested that I include Georgia ARES info in the RJ. This is pretty important stuff now, since the ARRL and the DHS signed a *Statement of Affiliation* at Ham-Com in Arlington, TX in June. One of the several forums presented at the Gainesville hamfest, in fact, was an excellent ARES presentation by Mike Boatwright KO4WX, Georgia Section ARES Emergency Coordinator (EC). So please send me any repeater-related ARES news and updates via email (preferred), phone, or snail-mail and I'll try to weave it into this column.

That said, just an hour ago (no lie) my pager sounded an ARES severe Wx warning and net alert, reminding me once again just how important repeaters are to ARES and Skywarn operations. I took a break from working on this article to join the net and report my local Wx situation as it evolved. Though it turned out to be just a passing T-boomer in the Lawrenceville area, some parts of northern GA (including some mountaintops where ARES-critical ham repeaters are located) got smacked pretty hard.

Let me suggest that you make sure your ARES repeater net listings on their respective web sites for each county are up-to-date. Report any problems to either your EC or the webmaster. While one might actually debate the advisability of making ARES repeater net schedules public information given the implications of the DHS situation, there is also an obvious need to get more hams trained and involved in ARES, active on the nets, present at the meetings, and on site during emergencies. My personal opinion is that there ought to be a consolidated listing of ARES net schedules available at a central point on the web that includes every participating county in Georgia. Heck, maybe even for the entire USA. It could look something like the following, for example.

ARES Org.	Every	Time(ET)	Repeater
DeKalb Co.	Sun	8 pm	145.45-
Forsyth Co.	Tue	8 pm	147.15
Hall Co.	Wed	8 pm	146.67-
etc.	etc.	etc.	etc.

This might serve a number of useful purposes, including the following:

- County ARES groups would all be aware of each other
- Current ARES net schedules could be presented
- Net participation by non-local drop-ins would be easier
- Appropriate visibility and publicity for ARES

Again, the preceding is just my opinion/suggestion. Follow the lead of your EC in all cases.

THE RUMOR MILL

The items below have come to me from curious, interested and/or concerned Georgia repeater owners, trustees, and users.

SERA patches: Had an inquiry the other day about SERA window stickers and patches. Alex N8FWL is doing a feasibility/cost study. I think it's a great idea. If you agree (or disagree), let Alex know. I don't know about you, but I've still got an open advertising spot available on my old hamfest fishin' vest.

Alligator mouth mobiles: Anybody heard that there might soon be new commercially manufactured 75-100W vhf/uhf ham FM mobiles on the horizon? Here's a well-worn tip: never run high power mobile/base radios in the fringe areas of same-adjacent-pair repeaters that aren't suitably protected by tone input. The same applies to high power mobile/base amps. It would be very irresponsible operation, with undesirable consequences for all concerned. It gets worse with a 3+ dB antenna. Bottom line: let's never "ERP" bigger than we need to.

Don't get crossed up: Cross-band mobile repeaters, used responsibly, can be way cool — and more may be coming from the manufacturers. Sadly, history predicts that the legal guidance in the included manuals may range from inadequate to nil.

Reality check: there's stuff we all need to know about cross-band repeating before we plunk down our money for a new rig that we may not legally be able to use the way we had hoped to. Be sure to read the current edition of the ARRL's FCC Rule Book.first. *[The August 2001* ***Repeater Journal*** *carried a* ***Getting Started*** *column on crossband repeat. E-mail the editor for a pdf reprint - KN4AQ]*

KENNEHOOCHEE
DX
SERA

The doors have just opened at the Gainesville 2003 Hamfest.

Erasing Paper Repeaters: Georgia (and every other state in the USA) is running low on usable repeater pairs in some bands, largely because a disturbing number (I've heard 30%!) of coordinated repeaters have not been operational for some time. The rub here is that this creates blank spots in Georgia's repeater coverage that nobody (except SERA and the FCC, of course) can easily deal with, since "on paper" these repeaters actually exist.

The complete list of acceptable reasons for an inoperative coordinated repeater is shown below:

- A temporary problem occurs after coordination, for which a solution is actively being pursued.

Get the idea? Okay, everybody understands that stuff happens. Unfortunately, some repeater owners will attempt to hang on to an inop repeater's frequency pair indefinitely. This is where SERA will draw the line after a reasonable waiting period, initiating the de-coordination process and returning the frequency pair to the pool.

The best thing to do if you have (or will have) a paper repeater is to contact your friendly SERA coordinator and make an official request for time to deal with the issue.

Okay, for the record: repeaters that are technically coordinated, but not operational

1) contradict the fundamental amateur radio charter to provide communication services in the event of emergencies,
2) lock up valuable frequency pairs, keeping someone else from stepping up to the plate,
3) violate the SERA coordination agreement, and
4) make SERA look like it's not doing it's job. We take all four of these items very seriously.

So... if you know of any Georgia repeaters that have been inop for 60 days or more let us know. We'll look into it.

Family ham repeaters: It appears to be more than an alarming rumor that valuable (and dwindling) ham repeater pairs are sometimes being coordinated purely for private "FRS" and "GMRS" style operation. For example, two ham members in the same family can technically and legally get their own coordinated frequency pair for a 2M 200W ERP ***closed*** repeater on a mountaintop. And guess what? It's legal! But guess what else? I don't have to like it! It will also probably not engender friendship and cooperation with others in the amateur community who are struggling to find available repeater pairs for *public* amateur use. Can you hear me now?

Errata? Nada! Okay, in my dreams. From time to time a reader will point out something in the RJ's Georgia repeater listing info that doesn't quite jive, and we fix it immediately. Had several recently, in fact. We do appreciate this feedback, so keep it coming.

THE SERA COMPLIANT DEPT

SERA's job is to carefully and professionally coordinate the repeaters of those repeater owners who desire such coordination. Period. There's no rule on the books that says your repeater ***must*** be coordinated. On the other hand, if an uncoordinated repeater interferes with a coordinated repeater then ole' Fox Charley Charley may shut it down. Again, this is fully covered in the current edition of the ARRL's FCC Rule Book.

Don't get me wrong; I'm as independent as anybody. But things sometimes work out better for everyone concerned if a few rules are agreed upon and followed.

So — what can we do together to get every Georgia repeater coordinated (i.e., compliant)? It doesn't seem like a big deal to me. Dit-dit-dit-duh...

FIELD DAY AND REPEATERS

Communication: The Dahlonega area is beautiful country, but its maze of local mountaintops and roads can be pretty intimidating to an outsider. I listened with bemusement and respect on Saturday to the very active N4KHQ 146.835+ repeater Field Day talk-in operations. A significant number of hams who clearly were "not from around there" were able to attend nonetheless due to this well-organized effort.

Intercommunication: I also snooped around several of the Georgia Field Day locations to see what part repeaters might be playing. Again, lots of local repeater talk-in going on, plus on-site simplex. I couldn't help thinking, however, that if Field Day is supposed to show off hams' readiness to cope with communications emergencies, then wouldn't it make sense to also practice using local and linked repeaters for communication *between* different Field Day groups? Maybe this is something the cw and phone ops could be doing between HF gigs. Seems like there should be SOMETHING in place for repeater group intercommunication during ARES and other emergencies. Shoot, I don't know. Just a thought.

YOUR OPINIONS PLEASE?

In this column I promise to air whatever's on the mind of Georgia's trustees, control operators, and users—even if I don't agree with it. And, hecky-durn, that's the way it's supposed to work. Just call, write, or send me an email with your question or comment. Certain expletives may be paraphrased or deleted, of course—even if I DO agree with them. ■

Proposed GA Repeaters

Form 03 coordination paperwork was submitted to SERA for the following Georgia repeaters prior to 4/1/03, and SERA is now awaiting the Form 09s. Although most of these are still on schedule, some are — how do I say this — overdue? Maybe I'll color code them appropriately as green, yellow, and red in the next issue of the RJ (hint, hint).

NOTE: once a coordination application (Form 03) is accepted by SERA, an "Okay, I'm now up and running" notification (Form 09) is expected from the repeater owner within six months. A six-month extension is usually granted if requested.

Freq	Callsign	Location
53.010-	W3LAP	Cochran
145.150-	K4TWG	Baconton
145.190-	W4CBA	Gainesville
146.745-	AF4VH	Springfield
147.090+	KE4RWR	Bainbridge
147.225+	KG4ABK	Doerun
147.330+	N4MTN	Toccoa
224.100-	K4SWS	Eatonton
224.220-	KB0Y	Ray City
224.660-	NP2Y	Young Harris
224.720-	W4UWH	Clayton
224.820-	WR4MG	Hawkinsville
441.850+	K4WOC	Sugar Valley
441.975+	WB4ULK	Columbus
442.000+	AF4UL	Macon
442.300+	KW4KW	Ringold
442.425+	K4SWS	Eatonton
442.475+	W1MED	Marlow
442.700+	W4MAZ	Macon
442.775+	K4VJM	Flowery Branch
442.900+	KF4RLZ	Lawrenceville
443.075+	WA4EOC	Canton
443.125+	KG4PUW	Stockbridge
443.125+	W4ZT	Atlanta/Union City
443.525+	N4PQR	Knoxville
443.650+	W4CML	Atlanta
443.675+	WB4QMJ	Calhoun
443.975+	KB4NPO	Rex
444.100+	WR4CW	Atlanta/Glenridge
444.125+	KE4PVE	Pendergrass
444.300+	KC4YNY	Hogansville
444.350+	KE4PVE	Newnan
444.350+	W4CBA	Gainesville
444.775+	N4MXC	Cochran
444.850+	N4YXL	Greensboro
444.850+	KG4OGC	Hinesville
927.4875-	KB0Y	Valdosta

KENTUCKY

REPORTED BY
FRANK BELCHER KS4XL
PO BOX: 1442
ELKHORN CITY, KY 41522
ks4xl@sera.org

Lexington hams help track down interference to KY EM repeater

This month's column relates how hams solved an interference problem for Kentucky Emergency Management in Lexington. The story was written by Bob Stephens, KY Emergency Management Telecommunications Manager, with this forward by Pat Spencer, KD4PWL, ARRL KY Assistant Section Manager:

For those not familiar with the incident, there was a signal interfering (sometime making it unusable) with a KY National Guard and Emergency Management repeater in Lexington. After several weeks of searching, Bob Stephens and Logan Weiler, KY EM Area 13 Manager contacted me to put together a crew to help isolate the signal. There are a group of Lexington hams who regularly "fox hunt" for fun and fellowship.

KA4KYI, KG4LFP, KG4TND, KQ4ZZ, N4MOM, and I we were honored to put that experience to use for a serious purpose. Thanks for asking us to help!!!

This is a note to me from Ron McKnight regarding the results of a 6 week "Fox Hunt" or search for stray radio frequency energy causing major problems with the Lexington Repeater. Many of you may recall that this problem shut down communications to the EKU Rescue School. The RF problem has been solved. We located the source of a radio transmission on 143.00 MHz that was causing havoc with the Lexington Department of Military Affairs/Emergency Management Repeater.

After a few weeks of "dedicated" day and night searching, the noise culprit affecting Lexington tower has finally been found and resolved. As it turns out, we had a quite a few noise locations on 143.000 throughout Lexington. This past weekend the ARES club found yet another source for the signal in the 200 and 300 block of Maxwell.

Yesterday Logan Weiler and I went and isolated that particular signal to what we felt like was the probable house. This morning I returned back and found for certainty that the house in question was the definite culprit of the noise by using a spectrum analyzer and a yagi beam antenna. But we still had to find what and where in the house was making the noise.

With UK staff allowing me to gain entrance, we found that almost all the electrical outlets in the house carried the noise, as well as all the T-1 connections in the house.

After several hours of searching, the strongest signal I had seemed to come from an alarm wire box. The security people came and unhooked the alarm in the basement, but the noise continued. A few moments later, they began to turn off breakers. The noise still continued. Then it stopped all at once. Unknown to me, another staff member had removed the cover of the alarm box and unplugged the alarm transformer from the wall socket. The noise stopped.

The guilty culprit was a little modem (about the size of a Zippo lighter) tied into the Computer Hub line to notify Campus security dispatch. We later found that the house has a slight electrical ground problem. When it rains, the noise was never there because the ground outside the house would be damp enough to shunt the offending signal. We mainly heard it on weekends and holidays because that is when the alarm was on. Recently, the system had quit working, so no one ever turned off the alarm, thus it was ongoing all the time.

Many thanks to LEX ARES club, Logan Weiler, and to all of you had had the patience of waiting why we chased down a tiny little modem in a city the size of Lexington.

Club/Repeater News Wanted

Don't forget - send news of your club or repeater group to ks4xl@sera.org. Put me on the mailing list for club newsletters (pdf, html or snail-mail). ■

Ohio Digital Symposium coming Jan. 10

The **Eighteenth Annual Southwest Ohio Digital Symposium** will be held on Saturday, January 10, 2004; 9:00 a.m. - 400 p.m. in Thesken Hall, Middletown Campus, Miami University, Middletown (OH) . Admission and parking is free.

Sponsored by The Center for Chemistry Education, Miami University-Middletown, DIAL Radio Club, and The Ohio Packet Council.

If you have an interest in CW, RTTY, APRS, Packet Radio, AMTOR, etc., please plan to join us. More info at:
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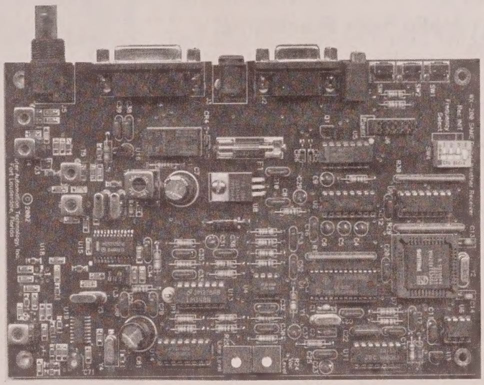
The NOAA Weather Radio Network broadcasts National Weather Service warnings, watches, forecasts and other hazard information 24 hours a day. With so many unsettling weather conditions, don't you think its time to provide timely weather alerts for your repeater group?



Specific Area Message Decoder

A digital decoder responds to Specific Area Message Encoded (SAME) alerts transmitted by the NOAA weather station located in your area. Select your county code and the type of alert. Select warnings and/or watches.

Voice Synthesizer Alert Message

Imbedded in the alert information packet is the time the warning or watch is in effect. The voice synthesizer will key-up the transmitter and announce the alert. "Severe Thunderstorm Watch," "Tornado Warning," "Winter Storm Warning," "Flash Flood Watch," and the new Amber Alert for missing children are just a few.

Alert Message Transmit Timing

At the conclusion of an alert, a termination packet turns the transmitter off.

Repeater Interface

The WX-200 has been designed to easily interface to your repeater. A minimum of four connections is all that is required.

Weather Enable Input

Ground this input to provide weather reports on demand.

Weather Disable Input

Ground this input to prevent future alerts once a Skywarn net is activated.

Weather Alert Log

The WX-200 stores the date, time and type of alert in memory. Use the RS-232 port and the configuration program to download the log.

Alert Start Logic Output

This output provides a TTL logic high when a weather alert is received. It can be used to set off an external alarm or trigger the controller to execute a macro or load a memory save.

Alert Stop Logic Output

Included in the digital packet is the length of the alert. The WX-200 generates a stop logic output when the time period has expired. Use this output to reload a normal memory save.

Ordering Information

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Internet: http://www.catauto.com

MISSISSIPPI

REPORTED BY
CHARLES DIAMOND
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LUMBERTON, MS 39455
(601) 796-9279
KG4CKW@SERA.ORG

Hello from Mississippi

I would like to start off by letting everyone in Mississippi know that this is not just my article, it is yours too. Anything that you would like for me to put in here such as; club newsletter items, announcements, news, etc. Just send them to me by snail mail or e-mail and I will be sure it gets covered in here.

I plan to have information relating to new repeaters coming online and such. Remember it doesn't have to be related just to repeaters and the world above 50 MHz. It can be anything you would like to have printed about ham radio in Mississippi. Also any suggestions of what you might like to see in the *Repeater Journal* are welcome.

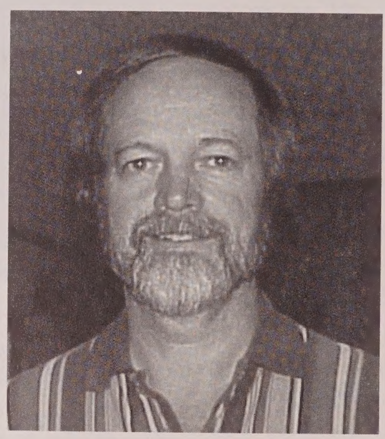
THE NEWS

I recently returned from the spring SERA board meeting. I enjoyed it very much and learned many things about the organization. The state coordinators are working hard to even improve how SERA does things. I would like to thank all of the board members for showing so much hospitality to me and allowing me to participate. I hope to go again.

The end of June every year means a lot of activity for all hams. FIELD DAY. Please send me your stories about field day and I will cover them for the next issue.

HARC aids the Hub City Hustle

It was an unusually cool morning Saturday May 24th. When the **Hattiesburg Amateur Radio Club** assisted around 300 participants finish what most of us might call organized torture. The 11th Hub City Hustle, a triathlon held in the area consists of three events, swimming, running, and biking. The organizers of the event appreciated the help. Good turnout from the HARC helped make for a smooth event. The Ham participants where as follows: **KD5XG, AC5E, KD5LAJ, KC5NEJ, K5MDD, KG4CKW, AG5Z, N5QNB, W5UHF**, and **N5VHC.** KD5XG said this about the event, "I enjoy helping with the event. It gives me an opportunity to marvel at the condition of the participants, young and old."



Harold Bullard K5WHB is the new SERA Assistant Director for Mississippi

Jackson Co. ham wins award.

Richard Brown KC5RID, has been nominated as outstanding community volunteer. He will be recognized at the UNITED WAY for George and Jackson counties 17th Annual VIP (VOLUNTEERS are Important People) awards luncheon. The luncheon was held May 2, 2003 at Chappy's Lafont Inn in Pascagoula, Ms at 11:30 AM

South Mississippi Skywarn

A new net has been started in South Mississippi. The **South Mississippi Skywarn Net** will met the 1st and 3rd Tuesday of each month on the 146.775 repeater in Hattiesburg. If you're in the Hattiesburg area please feel free to check in when the net is going on or during severe weather.

SERA Mississippi News.

Steve Grantham, your SERA director, has received a new vanity callsign. **N5DWU** is now know as **AA5SG**. Please change all of your address books to the new callsign. Congratulations Steve!

Steve has also been busy recruiting more help. **Mr. Harold Bullard K5WHB** has stepped up to the job of Assistant Director. Harold is a resident of Corinth MS, which is in the extreme Northeastern corner of Mississippi, close to Tennessee and Alabama, has been an active ham since the 70's, and works in the Aerospace industry. He helped install and build over 25 towers in North Mississippi last year. Also, he is an owner of a 2 meter and 6 meter repeaters in that area.

Harold will be responsible for 24 counties in the Northern part of the state. I would like to take this opportunity to welcome Harold aboard and I hope that all of you will also.

Jackson County ARC Hamfest

The hamfest was a great success. It was held at the Jackson County Civic Center in Pascagoula, on the Mississippi's Golden Gulf Coast, from 5 to 9 PM on Friday, May 23rd, and 8 AM to 2 PM on Saturday, May 24th, 2003. They sold a record amount of tables and had well over 230 paid attendance. Major vendors included MFJ and MCM Computers. There was FREE RV hook up and onsite security for the people who chose not to go to a hotel/motel. The kitchen was open Friday night and Saturday (although the red beans and rice quickly disappeared Friday evening.) SERA was given a free table for the event and we really enjoyed meeting with the local ham radio operators.

Finally I would like to remind every one to keep the newsletters and stuff coming to me.

73, KG4CKW.

Learn more about Doppler Radar

Most of us look at the NWS Doppler radar often, especially when storms threaten. And we all get a pretty good idea of what we're seeing. The big red blob coming toward us means we'll be getting a thunderstorm soon.

But if you've ever wondered about some of the terminology used on the web page, and just how well the radar can see weather at various distances, you'll want to stop by this web site and learn all about it:

www.wdtb.noaa.gov/DLCourses/wbt/88dintro

Thanks to Matt Runyan KG4MYD for the tip.

SERA's Mississippi team Aubrey, Charlie and Steve (right), and hamfesters checking out the merchandise, at the Jackson County Hamfest

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Deadlines to receive the next issue:
FEB: Jan 15
MAY: April 15
AUG: July 15
NOV: Oct. 15

NORTH CAROLINA

REPORTED BY
MIKE LEWIS WA4KE
3401 APPLE MEADOW DR.
FUQUAY-VARINA, NC 27526
wa4ke@sera.org

This month's column was infected by the notorious gremlin of fate and many of your electronic newsletters were consumed by the garbage disposal of electronic information (inoperable computer). Let's get started with the North Carolina Update.

Byron Highland K4BMH reported that the proclamation has been issued by Greenville's Mayor Parrott to declare Radio Week during the week of Field Day. **The Brightleaf ARC** will conduct their Field Day at Lowe's in Greenville in conjunction with Lowe's Hurricane Awareness Day.

The **Mecklenburg Amateur Radio Club** participated in the MS Challenge Walk, May 30 through June 1. The MS Challenge Walk is a three-day, 50 mile walk from White Oak, SC to Charlotte. Many thanks to those who came out and participated: N4MH, KA3VVJ, AE4AT, AF1Y, AF4ZK, KA4WYC, and W4DXL. The club had Bob Meffert from Duke Power discuss Duke Power's storm and emergency preparations in general and the company's work during the December ice storm.

The **New Bern ARC** has been participating in several public service events, such as the Women's Shelter walk on May 17th, and the Neuse River Days boating activities. Also, Robbie Rikard KG4MBQ gave a progress report on his Boy Scout eagle project of setting up ham radio VHF communication at the hospital.

The **K4JDR-KD4RAA Repeater Group** in Raleigh has added a new UHF repeater in their link system. The KF4AUF Holly Springs repeater is at a water tank site and was installed by the group in June. The 444.325+ 100 PL was on the air that evening operating into the K4JDR-KD4RAA Link System. The Link System presently has six repeaters on a full time link with plans to add more. The repeater locations currently on line are in Raleigh, Henderson, Durham, Cary, Clayton and now Holly Springs.

In addition to the RF linking with these local repeaters, it is also an IRLP (Internet Radio Linking Project) repeater used for point-to-point contact with other IRLP Nodes. The IRLP Node number is 4270 and it is used for local SKYWARN Administration and a weekly IRLP SKYWARN Net that takes place at 8:00 PM each Saturday night. Other features of the link system are: Automated SAME Weather Alert radio with a user access weather function, 911 Emergency and telephone interconnect, digital

The Raleigh Amateur Radio Society says:
Thanks for a great RARS*Fest* 2003!
Mark your calendar for April 4th, 2004.
RARSFest '04 just wouldn't be the same without YOU!

RARSFest
NC ARRL State Convention
Hamfest & Electronic Flea Market
Sunday, April 4th, 2004
8:00 am to 4:00 pm

www.rars.org/hamfest

SPECIAL SERVICE CLUB
RALEIGH AMATEUR RADIO SOCIETY
RARS
WORLDWIDE FRIENDSHIP

- RARSFest Supper Saturday Night
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- Hamfest Prizes
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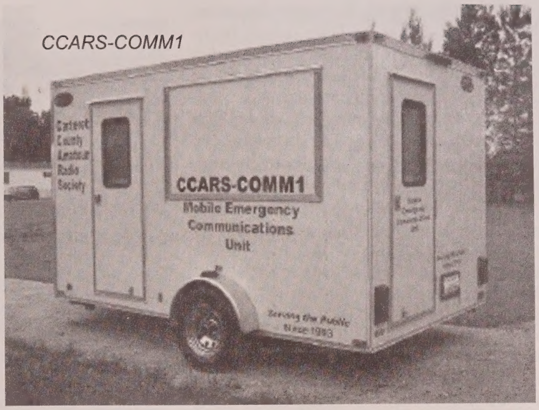
- Free Parking
- NC State Fairgrounds, Raleigh, NC

voice recorder, S-meter and other member functions. More information and pictures of the antenna install and info on the repeater group can be viewed on the web at:

www.caryncrepeater.com or **www.kd4raa.net.**

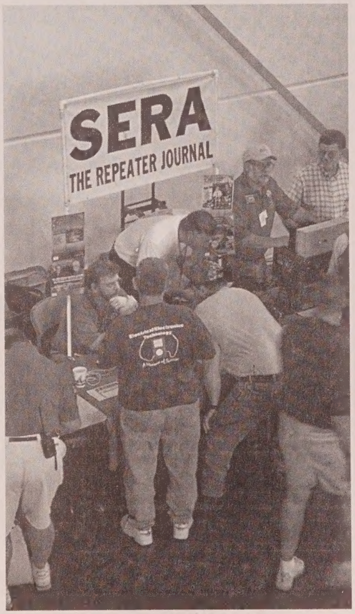
The **Forsyth ARC** had a visit from Boy Scout Troop 722 during their February Club meeting. Most local Scout troops meet on Monday nights so arrangements were made for the Troop to visit just before the Club meeting. This is an excellent suggestion for the rest of the NC amateur clubs to increase interest in the hobby.

The members of **Carteret CountyARS** have been working on the construction/outfitting of a trailer to be their Mobile Emergency Communications Unit, CCARS-COMM1. The CCARS-COMM1 Unit will have an HF station (packet capable), three 2m stations (one packet capable), one 2M/440 station, CB, FRS, Marine Radios and multiple power sources (battery/generator/commercial power).


CCARS-COMM1
Carteret County Amateur Radio Society
CCARS-COMM1
Mobile Emergency Communications Unit
Serving the Public Since 1983

Cary ARC
Cary ARC

The Cary Amateur Radio Club did well at their summer hamfest, despite losing most of the parking lot to construction. Next year, the parking and outdoor flea market will be great, under the new deck.



The NC "Lynch Mob" mans the SERA booth at Cary. The NC crew is on the way to attending every NC hamfest, with recent stops at Durham, Williamston, Winston-Salem, Salisbury, and Waynesville (with help from our SC neighbors), and plans for Fayetteville, Shelby, Maysville and Benson.

Thanks For Making Our 2003 Show a Great Success
We Appreciate Greatly the Record Attendance!
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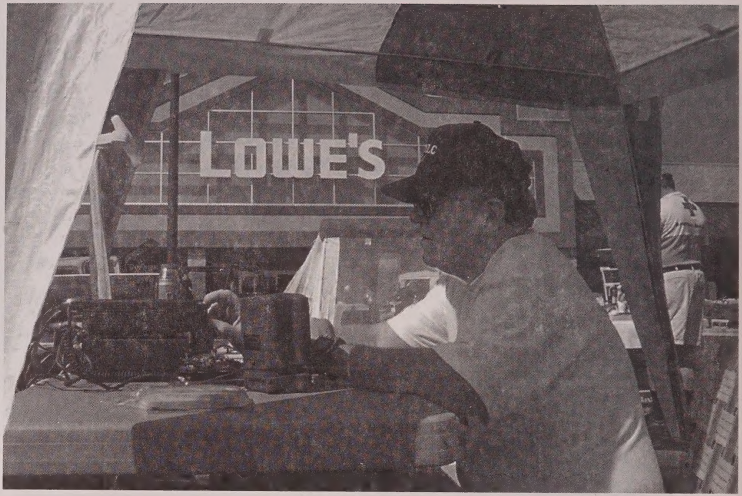
The **Outer Banks Repeater Association** participated in the Dare county Hurricane Disaster Drill on June 11. The group manned the fire stations and activated the 2m radios located in 6 fire stations. The 146.940 repeater was used to contact the Hatteras/Buxton area. The following fire stations were manned: Southern Shores, Kitty Hawk, Kill Devil, Nags Head, Collington, and Manteo.

New repeaters in the area include K4ITL's Asheboro repeater on 145.270, and AB4JJ's West Jefferson Repeaters 53.39 and 53.31.

Please continue to update your club's website. As I comb the Internet for club newsletters, I see that a few clubs have some great newsletters *dated pre-Y2K*. Support your local club, its newsletter and repeater networks; volunteers are the key to maintaining ARES readiness, providing great public support, or handling repeater coordination. Club trustees and newsletter editor, please contact John Covington, **W4CC**, at **w4cc@arrl.net**, to update the NC ARRL website. The information posted in the Journal typically is obtained from the clubs' website and newsletters. Please continue to send the news to **wa4ke@sera.org.** ■



*Field Day at Lowe's? Not quite. Bob Conder K4RLC operates the **Wake County ARES** demonstration station at the **Hurricane Preparedness Fair** in Raleigh, a week before Field Day.*

*In Greenville, however, the **Brightleaf ARC** did operate Field Day at the Lowe's shopping center. The Fair there coincided with the Field Day weekend.*

***Lowes and the American Red Cross** sponsor the Hurricane Preparedness Fairs in many towns across the hurricane belt.*

7th Annual

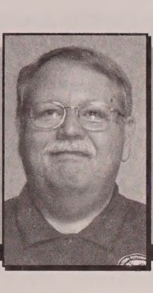
Catawba Valley Hamfest and Computer Fair

Burke County Fair Grounds
Morganton, North Carolina
Saturday
April 17th, 2004

To all of our attendees, thanks for making our 2002 Hamfest a big success! We hope to see all of you again next year. Remember to bring all of your friends!

A special thanks to the following dealers (visit our web page for their web page links):
Alabama Radio, Rad-Comm Radio, Virginia Ham Radio Supply, C T Morgan and Associates, AC / DC Electronics, CFM Communications, Tarheel Antenna, IDC Technology, Custom Audio and Video, Hamstick (Lakeview Company), Signman of Baton Rouge, Rosewood, David Jones, Ron Wilson, Wireman, Vortex Batteries, Joe Willis, Charles Wadell, Mac Computers, Blue Dunn, Norris Price, Doug Hall, Wolfenbarger, Frank Leberstein, Treasure Chest Software

Web Page: http://www.cvhamfest.org/



SOUTH CAROLINA

REPORTED BY
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102 PARTRIDGE RD.
UNION, SC 29397
(864) 427-1462
W4RWG@SERA.ORG

The SERA Board of Directors Semi-Annual meeting was held June 7 and 8 in Pigeon Forge, Tennessee. SC Vice-Director Jim Cantrell WJ4C and I attended. I was glad to again be able to represent the South Carolina District of SERA as your Director. We were told that South Carolina has the highest percentage of SERA Full Memberships in the 7 states that compose the SouthEastern Repeater Association. We have 189 repeaters in South Carolina and 123 are full members of SERA. I think this is great! Thank you, repeater owners for supporting SERA in South Carolina. We have 6,772 licensed hams in South Carolina, but only 228 are Associate members of SERA. Join today, send your payment to me and I will take care of it for you. Help us in SC to get those numbers up.

Let's see what's going on with SC clubs.

The Anderson Radio Club welcomes new members Thomas Gimenez KG4ZAI, and Grayson Dove K4RGD. Grayson works for WYFF TV Channel 4 as a technical director. He has also taken over as Webmaster for the club website. The ARC has been busy the last couple of months making plans for Field Day. Steve Foster N4SZ gave a program on repeaters and packet nodes. The ARC holds a net each night at 8:30 pm local time on the 146.790 repeater. They average 900-1000 check-ins a month.

The Blue Ridge Amateur Radio Society welcomes new members Jeffrey Biggerstaff KG4UOG, Carla Rutherford KG4VAH, Carl Rutherford AD4QW, and Eric Austin K4RTX. The BRARC reports that their hamfest (Upstate Hamfest) held this April in Spartanburg was a great success. I appreciate the table provided to me for SERA. I hope to be able to attend again next year. The BRARS provides an IRLP node on their 146.82 repeater on Paris Mountain. No tone required. Some programs presented by club members were John Chism ND4N on grounding procedures, Sue Chism N4ENX on ARES, and Shaun KG4GKG on Field Day. The Greenville WCARS VE team gives exams the first Saturday of each month at the Red Cross Building on Grove Road. The contacts are John Chism ND4N or Sue Chism N4ENX, **n4enx@mindspring.com**

The Chester Amateur Radio Emergency Services Club held their annual tailgate party on June 21st. at the Chester State Park. This free admission event continues to grow each year. The ARRL and SERA were there along with 20-25 tailgaters with bargains galore. Thanks to Ann Crisp and Lenea Walters, we had great hot dogs for lunch. The Chester Club put forth a special effort this year to get the word out and it produced the largest turnout ever. Club President Joel Shockley K4TDG has been appointed the ARRL Emergency Coordinator for Chester County.

The Columbia Amateur Radio Club is in the process of installing a new communications center at the Central SC Chapter of the American Red Cross. The center will have a multi purpose role of supporting Red Cross Communications during emergencies or disaster relief efforts, serve as a training area for operators, and a club station for special events, contesting, and exercises.

The center will house two HF rigs as well as two meters, 70 cm, and Red Cross radios. At a recent meeting, Bill Lemmon KA4TWK presented a program on simple HF wire antennas. The CARC had been busy remodeling their mobile communications trailer. They have installed a new air conditioner, modular operator workstations, on board Internet and TV, digital operations including PSK31.MCW, APRS, Packet, and eventually EMWIN, and even a portable repeater. WOW! Next year they plan to add battery, solar, and generator power.

The Charleston Amateur Radio Society held Field Day aboard the USS Yorktown located on historic Charleston Harbor. Patriots Point is home to the USS YORKTOWN (CV-10), the Fighting Lady. The first USS YORKTOWN (CV-5) sank at the battle of Midway on June 7, 1942. The club's main station is located on the aircraft carrier. Wouldn't it be something to be able to meet aboard the Yorktown? I visited the Yorktown several years ago and thought it was fantastic. I hope to return real soon.

The new editors for the club newsletter *The Carrier* will be Tony Lake KC8LKI and Sheila Lake. They will assume their job in July. Please make sure I am on the email mailing list. The CARS provided 37 members to help with the annual Cooper River Bridge Run from Mount Pleasant to Charleston. They handled dozens of heat injury related calls. The Charleston City Police were impressed with amateur radio, as hams became a critical link between the EMS and the police. Doug Clark KU4OC was net control for this event.

The CARS welcomes new members

Thanks to all our friends for making the 2003
Winston-Salem Hamfest
one of the best ever! We'll look for you next year!

Bobby McBride KG4RIB, Anthony Lake KC8LKI, Hal Austin NC4HA, and Robert Tuberville KN4B. Ed Frank KC4ED reports that he has a class in progress. They are meeting on Monday, Wednesday, and Friday. Ed, (former SC Vice-Director for SERA) conducts amateur radio classes in his "back yard schoolhouse." I welcome the Charleston Amateur Radio Society to the SC column. Please continue sending me your news from "the low country".

The Florence Amateur Radio Club is planning on starting a training class for new hams this September. They plan on one class per year and two exam sessions. The FARC spotlighted two new members in their newsletter. Mac and Suzie Collum. Mac originally started in amateur radio in 1954 as KN4AVR and finally upgraded to General. He let his license lapse in 1964, but has returned to amateur radio after his retirement. Welcome back, Mac.

23 members of **The Foothills Amateur Radio Club** helped with the Walk America Event on April 26th. The FARC welcomes new member Ricky Davis N4VDE. Club President Les Shattuck K4NK announces that the FARC is now an ARRL Affiliated Club. As Les is the Vice- Director of the Roanoke Division, he presented the certificate to the Club Vice President, Carl Durham WD4CD.

The Grand Strand Amateur Radio Club held Field Day at the old Myrtle Beach Air Force Base. Jim KF4CJE Club Vice

SERA
THE REPEATER JOURNAL

SERA
THE REPEATER JOURNAL

Roger hits the hamfests in his tireless quest for 100% SC repeater full membership, and more associate members. Above - a nice covered spot at the Chester fest. Left - money changes hands at the Upstate Hamfest in Spartanburg. Good job, Roger!

ROCK HILL HAMFEST

NEW LOCATION!

SATURDAY, OCTOBER 4th

at York County Technical College, Rock Hill, SC
I-77 Exit 79

- INDOOR AND OUTDOOR MAJOR DEALERS
- AUCTION (bring equipment)
- GIANT PAVED OUTDOOR FLEAMARKET
- VE TESTING, 10 AM
- Featured Dealer: COMMUNICATIONS HEADQUARTERS, Wilmington, NC

Admission and unlimited outdoor Flea Market space: $7.00

Grand Prize: Icom 2100H - many more!

Gates open at 6:00 AM ● Talk-in on 147.03 -600
Breakfast & BBQ Lunch

For further info: Bob Bacharach - (803) 327-2634 wa2emf@arrl.net

President does a great job getting the word out through emails. I thank him for keeping me informed of club activities. The club is making plans for their Beachfest 2003 to be held in November.

The GSARC meets the first Monday of each month at the Santee Cooper Building in Myrtle Beach at 7:00 pm. At a recent meeting, Webster Williams KR4WM gave a briefing on broadcasters converting to digital formats.

The *Sun News* had a very nice article written by **Dave Gustafson** about the hams in Horry County. In his article he said County Public Safety Director Paul Whitten called local hams "a tremendous asset to the county." Whitten said the "redundant communications" provided by the hams are vital to disaster relief, so the county bought antennas for the hams to use at the evacuation shelters and the county's operations center. Whitten said he's lucky to have the local group helping his team.

"We've probably got the best ham radio group in the state," he said.

The Keowee-Toxaway Amateur Radio Club welcomes new members Sam Shaw WA4WXA, Heather Shaw KG4YTO, David Crockett WB4DFW, and Don Crowl KG4ZRS. It is good to see that SC clubs continue to grow. Members of the Anderson and KTARC worked together on May 4 to cover the Clemson Triathlon. Amateur Radio was used for the 11-mile bike ride to provide race organizers with information on participants. Jerry Jordan KD4PJO was the coordinator for this event. Good job Jerry! Recent programs conducted at the KTARC meetings include Skywarn training, and instructions on how to access the club IRLP node. The KTARC is looking into the possibility of putting on an amateur radio class this fall.

The Laurens Amateur Radio Society has had several guest speakers at recent club meetings. Ron Moore of Greenwood spoke about Broadcast Radio, and Bob Skut W8PC gave a presentation on antenna basics. The club meets the third Tuesday each month at 7:30 pm in the EOC Building in Laurens, SC.

The Ridge Amateur Radio Club participated in Field Day activities this year. The site was the Batesburg-Leesville Leisure Center which serves as the local Red Cross Shelter as well as the communications center for ARES and RACES operations in Batesburg-Leesville.

The Salkehatchie Amateur Radio Society met at the Hilda Fire Station for their Field Day activities. Thanks to Edgar AB4ED for obtaining permission to do this. Steve Naglic N9NWS conducted another Skywarn program at the May meeting. Ray and Kathleen's Tailgate party went off without a hitch. All attending had a great time. I heard that the food was great and as promised, Ray did feed everybody. Sorry I couldn't be there Ray, maybe next year. The SARS had a club-sponsored yard sale in June at the home of Kimberly K1MI, Melvin KF4GYP, and Betty KG4OKD in Cope, SC. This is one of the fundraisers held to support club activities and the repeater.

The Spartanburg Amateur Radio Club members provided communications for the annual Assault on Mt. Mitchell, and the annual March of Dimes Walk. Guest speakers at SARS meetings have included Kim Smith K1MI, ARRL Affiliated Club Coordinator, and Adam Hoffman AF4QZ who is the ARRL Section Traffic Manager. It seems that my friend Fritz W4NTO has been given the title of Manager of the A-Team. I assume that means antenna team. Other team members include Harold WA4GIB, Steve K4SAW, and Art KE4EAN. From the newsletters it seems they were on top of the courthouse working on antennas. Fritz is still climbing. Is he 83 or 84? I forget. The SARC held Field Day activities at Camp Lea, a Boy Scout Camp in Cowpens, SC. Congratulations on Elsie Finkelstein KA2CLX on being featured in the newspaper. The 76-year-old Extra Class amateur radio operator told how she and her husband got started in amateur radio after he retired. She said, "amateur radio is more than a hobby, it is an obsession". I surely agree!

The Trident Amateur Radio Club is located in Charleston, SC. Repeaters oper-

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The 31st Annual and Original

CHARLESTON HAMFEST

AND COMPUTER SHOW

SATURDAY, FEBRUARY 7, 2004

Notice: This Hamfest is considered a family affair. The committee reserves the right to eject any inappropriate materials from the premises.

Prizes: $400, $200, & $100 cash. Door prizes during the day. **Activities:** Forums and Bingo.

Food: World Famous C.A.R.S. Dogs and BBQ Sandwiches. **Volunteer Exams:** On site at 1:00 pm.

Admission Tickets: $5.00

Exchange Park Fair Grounds, Ladson SC
I-26 at Exit 203
Acres of Free Parking
Talk in - 146.79, 145.25, and 147.045
Doors open at 8:30 am
See more details at http://www.qsl.net/wa4usn
or contact Jenny Myers, WA4NGV
2630 Dellwood Avenue, N. Charleston SC 29405-6814
(843) 747-2324 or email: brycemyers@aol.com

CHARLESTON AMATEUR RADIO SOCIETY INC.
CHARLESTON, SC
email: WA4USN@AMSAT.ORG

ARRL

ated by the club are the 147.27 repeater located in Summerville, and the 147.345 repeater located in Adams Run. They are currently in the processing of linking these two repeaters and are far enough along in the process that they have all the equipment ready for installation. Their primary holdup at this time is getting the right persons together to complete the installations. When the linking is completed, they hope to be able to cover the areas to the Southeast of Charleston more consistently. They have also been considering linking to a repeater in Moncks Corner on an as-needed basis.

The TARC runs a formal net on Tuesdays at 8:00 pm on the 147.27 repeater. The TARC meets the third Wednesday each month at 7:30 pm at the Red Cross Building on Rivers Avenue. The TARC assisted by providing communications for the 2003 Tour-de-Cure held on May 3rd and 4th. The first day's route stretched from the Regional Medical Center in Orangeburg to the Dorchester Academy in St. George, a distance of 59.7 Miles. The second day ran from Dorchester Academy to the SCANA, Sand Dunes Beach Club on Sullivan's Island, for a distance of 85.8 Miles. The Tour was a success with only minor problems having occurred. I welcome the TARC to our column and thank Dennis Zabawa KG4RUL for sending me the news from the Low Country.

The Union County Amateur Radio Club wants to thank Ron Crisp WB4VZN for his tireless efforts that keep their repeaters on the air. Ron maintains two 2-meter, one 440, and one 6-meter repeater and backup repeaters for all four. In addition to that, he keeps all their personal equipment going. An Extra Class Licensee, Ron is Vice-President of the UCARC and also a member of the Union WCARS VE Team. Thank you Ron for all you do for the UCARC. The Union WCARS VE Team holds exam sessions the 2nd Thursday in January, March, May, July, September, and November at 7:00 pm in the Union County 911 Center training room on North Pinckney Street in Union, SC Contact Jim WJ4C for information, **wj4c@charter.net.**

The York County Amateur Radio Club would like to welcome new members Kelly Cook KG4YTR, Dwight Garner N4DPG, Dennis Straight KG4YWA, Heather James KG4YPO, and Glenn Gilbert N4JJL. I extend my sympathy to the family of Vicky Croft KG4NOH, wife of Jerry Croft WS4E. Mrs. Croft passed away on May 14th. Vicky was a special member of the club, and will be missed very much. The YCARS congratulates Mike Croft on being appointed ARRL Emergency Coordinator for York County. Van Brown KG4LUT and Sheila Parrish KG4CDF have also been assigned OES.

Members of the club in Rock Hill have continued to stay busy this year. A group of members joined forces with the York County Office of Emergency Management on two occasions in April and May for distribution of Potassium Iodide tablets. Thousands of the tablets were given to residents of York County that live within a ten-mile radius of the Catawba Nuclear Plant. The YCARC has a very nice website. Check in out at **www.ycars.org.**

It is with deep regret that I announce the death of Lester E. Kennedy Sr. KF4GGM. Lester Sr., as we knew him, died at his home on July 23 after a sudden illness. He was a member of the Spartanburg Amateur Radio Club and the Union County Amateur Radio Club. He was faithful to attend club meetings in his home town of Spartanburg, and he always attended the hamfests in the area with his son Lester KF4EQC. He was always very friendly and went out of his way to speak to everybody. I extend my sympathy to his family. He will be missed a lot.

Proposed Repeaters:

K4SHP 147.090 Aynor, SC

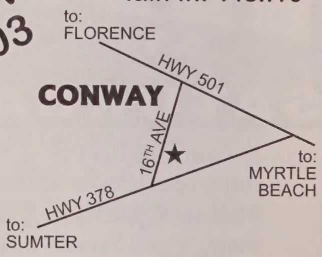
Attention South Carolina Repeater Owners. Are you a SERA Full Member? I would like you to consider joining the

NEW LOCATION!

Grand Strand
Amateur Radio Club
Myrtle Beach, SC
Presents:

BEACHFEST 2003
ARRL South Carolina Section Convention
Saturday, November 8, 2003
8 AM until 2 PM

Talk-In: 145.110



CONWAY NATIONAL
GUARD ARMORY
1621 16th AVENUE
CONWAY, SOUTH CAROLINA

Admission: $5 (under 12 free)
Inside vendor tables: $8
Outside tailgating: $5
Free Parking
VE Testing at 10 AM

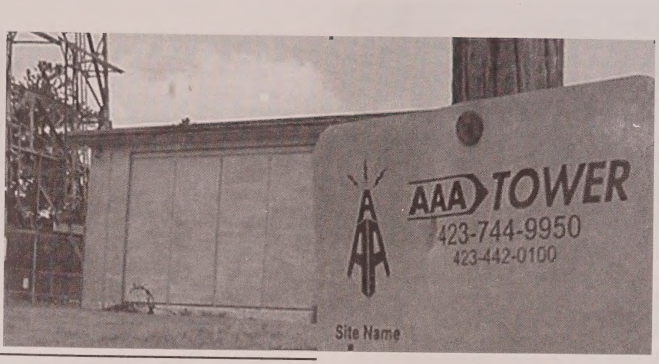
Web Site: www.w4gs.org Info: Jim Wood (843) 238-0800 KF4CJE@w4gs.org

NEW LOCATION!

SouthEastern Repeater Association. The cost is only $20.00 per year. Send your full membership dues today. Lets make South Carolina 100 %. SERA needs your support and with full membership not only will you support the SouthEastern Repeater Association, you and your designee will receive the *Repeater Journal*. What a deal!

Would you like to see news from your club in the *Journal?* Tell your club secretary to make sure I am on their newsletter mailing list.

73 Roger Gregory, SC Director



This sign says: "Hams Welcome"

Rich Tillotson WA4SSJ

Having been a Ham Radio VHF and UHF enthusiast for 30 + years, I know how frustrating it can be to find and negotiate a site for a Ham Repeater. All the technical effort and component scrounging are somewhat of a waste if a repeater can not be placed at a site with some elevation advantage.

With fiber optics transporting most all telecommunications traffic, many old microwave sites are left dormant. The building is empty and the horn type microwave antennas are no longer active

AAA Towers of Athens, TN owns many of these towers in AL, GA, KY, MS, NC, SC, TN, VA, & WV. The CEO of AAA Towers is a ham, David Fridley KG4FZR.

I contacted David by phone. I was pleasantly surprised by the enthusiastic response to my questions and request for a Ham repeater site. I am about ready to put 2 repeaters on the air from atop a 337 foot tower.

If you are searching for a repeater site, look for the AAA Tower sign and give David a call. ■

If You're Looking for Books!
Or MFJ, Vectronics, Hygain Ameritron & Mirage call RoseWood
Find Out Why So Many People Are Calling Us!
CALL 1-803-266-7900

- Over **300** titles - ARRL, CQ, Gordon West, CallBook, Tab, McGraw-Hill, Schiffer, MJFJ, IBS and many others.
- We have study guides, antenna books, callbooks, repeater directories, modification manuals, magazines, software, and even video courses.
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Commercial Printing Service
We Proudly Print The Repeater Journal
"Your Complete Offset Printing Source"
General Printing, Full Color Printing, Copying, Binding, Collating, Padding, Quik Copy, Laminating & More!
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Kernersville, NC
Call for Information: (336) 993-2846

TENNESSEE

REPORTED BY
BOB GAULT KD4NEC
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KD4NEC@SERA.ORG

Greetings from Tennessee! Field Day is over for another year and the hamfest season is heading toward fall. I hope everything is going well.

Field Day weather this year proved to be a bit different than other years. As many proclaim, " the last rainy weekend of June," for most in the southeast it was sunny and dry. I had the opportunity to oversee my first Field Day, and must admit it was an enjoyable experience. Now we'll have to wait for ARRL to publish results of the competition later this year.

501(c)(3) How-To:

If your club is feeling effects of the national amateur radio economy when it comes to raising funds, you might consider becoming a tax-exempt organization under IRS rules. It allows you to make purchases without paying sales taxes, apply for grants, and give donors a tax deduction for their gifts.

It was something our club thought long and hard about. At one time, we decided against becoming a 501(c)(3) after learning hiring an attorney would cost about $1,000 and there was a filing fee on top of that. But, thanks to the generosity of a club member who let us "borrow" his attorney, the process was simplified.

First, let me point out having legal counsel working for you can avoid problems along the way. You will need one who practices IRS law, so he should be up on the latest regulations and rulings.

Preparing our submission took about three months of work. The application, which can be downloaded off their Internet site, is nine pages. But by the time you gather all the information that is needed, ours came out 49 pages.

First step is to get your house in order. Your by-laws, constitution, and charter must contain specific wording in order to be considered. One hurdle for us was amending our charter, and here the attorney helped. Working with the Tennessee Secretary of State Office, it took us about three weeks to receive approval.

Your charter must meet the test of IRS law. For one, you must include a provision that if your organization folds all assets will be given to either a government agency or another 501(c)(3) organization.

We used this opportunity to amend our bylaws and constitution, including changes we intended to make but never got around to.

You can download a copy of the application, instructions, plus some general information from **www.irs.gov.** One word of caution: read through this information first on your computer because there are pages you won't need, and this will reduce the amount of paper you use.

Detailed financial information is required. If you are a new club, you must project several years of income and expenses. Other organizations must submit this information covering a period of several years.

While most of the preparation was done without the lawyer, he did look over and submit our application to the IRS office in Florence, Kentucky. If your organization doesn't own property, have a large income, or have employees, your application should be fairly simple, like ours. About a month after we submitted, a letter arrived announcing we comply with guidelines to be a 501(c)(3).

"Weasel Pus - W4PUS" sends cw, carries his own HT, and sports a callsign badge at hamfests and other events, attracting attention and enabling his owner, Brice Umstead K0CSJ of Knoxville, to talk to people about amateur radio. Brice assigned the callsign "W4PUS" himself. Should Weasel Pus ever pass an FCC exam, the callsign is available in the FCC database.

New TN Repeaters:

Tim Berry WB4GBI has coordinated several new repeaters, including two new 6 meter machines.

Freq	Location
53.47 Mhz.	Knoxville
53.33 Mhz.	Mountain City
444.025 Mhz.	Kingston
444.500 Mhz.	Cookeville
444.825 Mhz.	Rockford

Tennessee Amateur Radio Week Proclamation

Governor Phil Bredesen issued a proclamation for Amateur Radio Week.

WHEREAS, amateur radio provides excellent volunteer emergency communications for served agencies such as the Emergency Management Agencies, Red Cross, Salvation Army and others in times of natural disasters and other emergencies, and

WHEREAS, by continuous learning and experimentation amateur radio operators have helped to forward the science of electronics, and

WHEREAS, by example, lecture and hands-on teaching experience, including the opportunity to communicate with amateurs in space, amateur radio operators teach young people the adventures available in radio and electronics,

NOW, THEREFORE, I, Phil Bredesen, Governor of the State of Tennessee, do hereby proclaim June 27- July 3, 2003 as

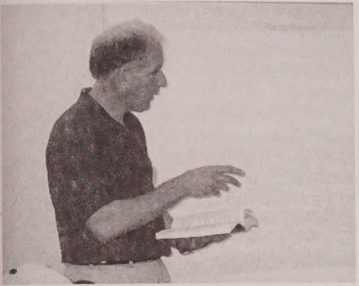
AMATEUR RADIO WEEK

in Tennessee, and commend this observance to all our citizens.

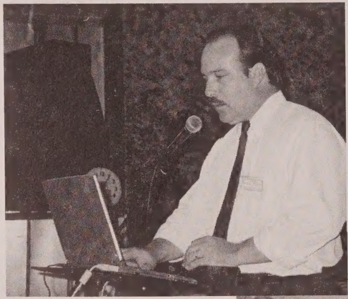
As I said initially, having the services of a good attorney can speed up the process.

That's all from Tennessee this time.
73's, KD4NEC

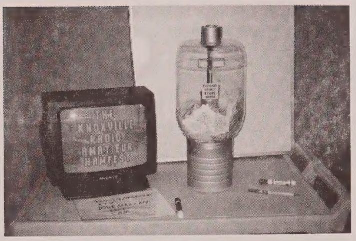
memories from the Knoxville Hamfest '03



The FCC's Bill Cross W3TN presented "The FCC and Amateur Radio."



TEN-TEC's Doug Smith KF6DX gave a popular talk on "Digital RF Communication" Friday evening.


THE
KNOXVILLE
RADIO
AMATEUR
HAMFEST

KC4TIQ and WA4CDM presented an ATV demo. The transmitting tube was used to hold ticket stubs for the prize drawings.

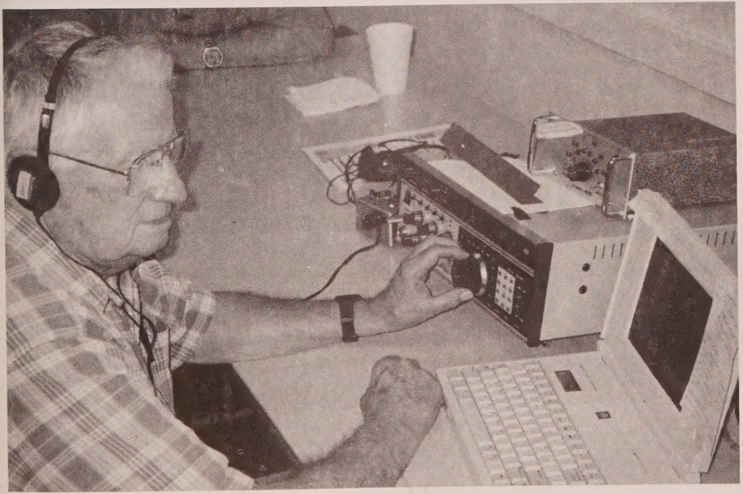
Oak Ridge Amateur Radio Clu
Jack Goforth Memorial Ham Sh
Great Smoky Mountain Counci
Boy Scouts of America
Radio Amateur Club of Knoxvil
The East Tennessee DX Associat

WATE-TV interviews Don Riley N4CZL about the Jack Goforth memorial communications unit, funded by local clubs and utilized by the Boy Scouts.

SERA TN Director Tim Berry WB4GBI (seated, center) and ***RJ*** *TN columnist Bob Gault KD4NEC (to Tim's right) manned the SERA booth. Tim used his service monitor to check HTs, and conducted a repeater clinic forum.*

ERA
TH EATER JOURNAL

Oak Ridge ARC Field Day: *former SERA TN Director Jean Giesler W4TYU operates cw from the Red Cross building in Oak Ridge, TN.*



CLARKSVILLE
HAMFEST

Sponsored by: Clarksville Amateur Transmitting Society

Major Vendor:
the HAM STATION

Sat. Oct. 25, 2003
8 AM – 2 PM

Admission $5 (ages 12+)

Pavilion Tables $10

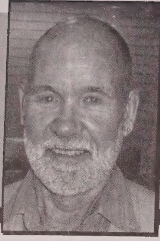
Tailgating free with paid admission.

Clarksville Fairgrounds
Pavilion, Hwy 48/13
Clarksville, TN

VE Testing starts at 9:00 AM

Talk-in on 147.39 + Repeater

More Info: **KT4FQ@arrl.net**
or **www.qsl.net/kf4l**



VIRGINIA

REPORTED BY
FRED WEAVER KG4BKI
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757-242-9066
KG4BKI@SERA.ORG

On 21 June the ARRL and the Department of Homeland Security (DHS) signed a Statement of Affiliation (SoA). The agreement adds the ARRL as an affiliate to four Citizen Corps programs – Neighborhood Watch, Volunteers in Police Service, Community Emergency Response Teams, and Medical Reserve Corps. The League joins a number of other affiliated organizations.

The SoA says, in part: "together DHS and the ARRL agree to work collaboratively to:

- Raise public awareness about the use of Amateur Radio as a public safety resource;
- Provide training and accreditation for Amateur Radio Emergency Communications;
- Promote the formation of local ***Citizen Corps Councils*** and assist these councils with providing public education, training and volunteer service opportunities that support first responders, disaster relief organizations, and community safety efforts;
- Publicly acknowledge the affiliation of ***Citizen Corps*** and the ***ARRL***, which may include website links, co-logos on publications, and references in printed materials, including articles and news releases;
- Keep each other informed of activities conducted in support of ***Citizen Corps*** and provide an annual report summarizing those activities."

For more information about Citizen orps go to **www.citizencorps.gov** which the national web site for the program. In irginia we have to have a separate name r it – Virginia Corps. The web site for that **www.virginiacorps.org,** and click on cal Volunteer Centers to find out whom contact in your area to volunteer.

For the complete text of all the ARRL's OUs go to **www.arrl.org/FandES/field/mou/**.

The **Franklin Repeater Users** (FRU) is a group of hams that support the 147.30 repeater in Franklin, VA. It is not a club in the traditional sense so there are no officers, nor elections. The group meets each quarter for breakfast. Annually, on the second Saturday in June, the group sponsors a sanctioned 'hamfest'. The event is no longer called a hamfest as that word caused some confusion about what the event really was – a picnic. Officially it is called a Pig Pickin' Picnic/Tailgating.

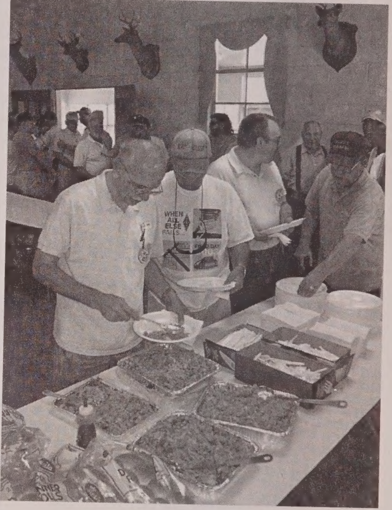
The event has added a test session to the program at the event. Carl Clements W4CAC has agreed to handle the test session on an annual basis. It is hoped that the event will become known as a great place to get a ticket as the 90 or so hams can collectively welcome new hams and congratulate the upgrades.

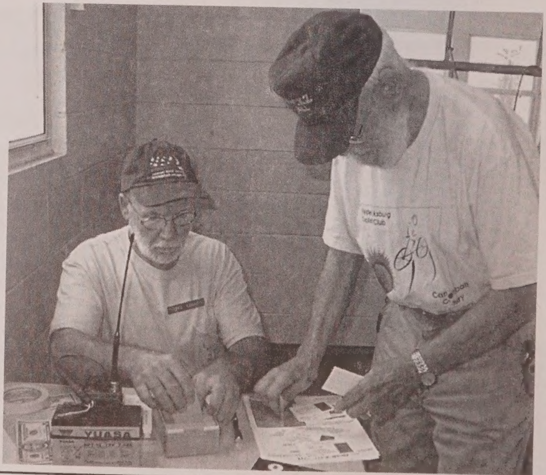
Lunch is a sit down affair in the **Bronco Club,** followed by a presentation. This year Lt. Kurt Beach of the Smithfield Police Department talked about Identity Theft. This presentation had the groups attention. Identity theft is a rapidly growing crime. Lt. Beach described how to protect yourself and what to do if you are a victim of this type of crime. He distributed the booklet *How to Avoid Identity Theft / A Guide for Victims*. For more info go the Virginia Office of the Attorney General, Victim Notification Program: **www.vaag.com**.

And the Bronco Club organizers were pleased to welcome Gary KN4AQ as the official SERA representative. He sold a few subscriptions too.

This time I actually have some repeater news. Hams in the **Hampton and Newport News** area have noted that the **146.73** and **444.55** repeaters are off the air. The two meter repeater has been operating for nearly 30 years from the top of the Chamberlain Hotel. The hotel has gone into bankruptcy and the electricity in the building has been shut off. To secure their equipment the **Southern Peninsula Amateur Radio Club** (SPARC) has removed it from the hotel.

The removal of the equipment will allow for a refurbishment and prevent it from becoming part of the 'furniture' in any of the bankruptcy proceedings. The equipment had to be hand carried down 9 flights of stairs, some of it on hand trucks. Some of





Queue for the Que: *Franklin VA Repeater Users group picnic. Below, Fred KG4BKI checks tickets for the raffle.*

the smaller pieces were lowered down the side of the building in buckets.

Charlie Stokes WB4PVT made it clear that the site had not been abandoned and that SPARC was confident that they would be able to reinstall the repeaters when the building came under new ownership. Good luck to them on that project.

On 21 April 2003 the 146.94 FM repeater ceased nearly continuous operations after 41 years of service. It is believed that this is one of the three oldest repeaters in Virginia.

On 24 April the same repeater came back on the air as the 146.67. This change in frequency solved myriad interference problems. This repeater and a packet node (LARCND) are supported by the **NASA Langley Amateur Radio Club.** Check them out at:

larc-exchange.larc.nasa.gov/lea/amateur-radio.

You will like the picture showing where the antennas are mounted.

The **KC4JGS/R 224.74** is being moved to a new location in Chesapeake. It will be located on the same tower as the 146.61 W4CAR/R. The antenna is expected to be in the 4-500 foot level. This should expand its range to cover all of the Hampton Roads area as well as parts of NC.

The repeater was moved from its previous location at Old Dominion University when the site was no longer available. That location was in a very high rf environment and the repeater suffered from much noise. The new location is expected to be much quieter.

June 1st was the beginning of hurricane season 2003. The **Hurricane Watch Net** conducted a test of their equipment and trained operators on a number of bands and modes. From here in Podunk (Zuni, VA) I was able to contact them on 40M, 20M and IRLP. For IRLP I use the 147.55 repeater in Hampton. The HWN used the Raleigh Reflector – 9210.

The information that I had indicated that the Net would be on PSK, but I was not able to copy them on that mode. I was able to make other contacts in Florida at the scheduled time for the test of that mode.

A little comment here on PSK. During this year's Field Day I made a few contacts on PSK. Fully 20% of them were to Class F stations. Class F is operations from a fixed municipal EOC. The ease of operation, low bandwidth and power requirements, have it showing up in many Emergency Communications operations.

On June 14, 2003, the **Medical Examiners office and District 7** held a daylong digital emergency communications exercise. Following the guidance of Bill Sammler at the National Weather Service in Wakefield, the exercise scenario was a two-tornado event patterned after the two twisters – one of which was F4 – that touched down in La Plata, Maryland in April 2002.

While a two-tornado event is a rarity, it provided the basis for multi-jurisdiction participation that included Newport News, York County, Hampton, and James City County/Williamsburg. Newport News and Williamsburg/James City County opened their Emergency Operations Centers for the exercise. Present at the Newport News EOC were Jack Williamson, the EOC Coordinator and Lori Hardin, the Statewide Emergency Planner for the Medical Examiners Office. The Newport News EOC was the tactical EOC and received traffic much like would be done at the Virginia EOC during an actual event.

New VA Repeaters:

Freq (tone)	Call	Location
224.56 (77.0)	K4YW	Wytheville
442.175 (103.5)	W4VSP	Wytheville
442.725 (107.2)	KF4RMT	Vesta
444.675 (103.5)	K4IJ	Pearisburg
902.4875 (100.0)	N4JNE	Fancy Gap
224.44 (123.0)	N8FWL	Bluefield

Using prewritten traffic, amateur radio operators sent traffic via the VDEN (Virginia Digital Emergency Net) system on 145.73 MHz as if they were at the incident sites and at the fictitious Hampton MedPlex Hospital. The 146.76 MHz repeater in Williamsburg was used as the tactical repeater to confirm that digital traffic had been sent and received. Approximately 20 hams participated, providing communications at the Norfolk Medical Examiners Office, the two EOC's, the "Incident Sites" and at the "MedPlex" hospital. By days end messages equating to about 90K of text had been sent and received.

The pizza-enhanced After Action Review was held at the Newport News EOC.

Joe Safranek K4JJS, the Media Coordinator and A/EC for Gloucester County sent an additional report on the same exercise. In his report he says, "Packet is alive and well in District 7." (For a map of the various Districts in Virginia, go to **www.aresva.org** and click on District Maps.)

If you want to try the VDEN system, you can send a message to me via packet. Use:

kg4bki @ kr4ma.#tide.va.usa.noam

to send a message to my home BBS. Don't send anything that might be time sensitive, as I do not check the packet system on a daily basis.

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On May 24, 2003 as part of the ongoing support of Metro Richmond Hospitals, **Virginia RACES District 6,** per request, staffed eleven metro Richmond hospitals testing communications pathways. Hospital administrators requested the test to evaluate what communications equipment and locations with their facilities worked and which ones did not. The results of the test have been presented to the hospital administrators. The drill follows the Richmond Mass Casualty Incident exercise held in the fall of 2002.

Bits and Pieces

The new question pool for Element 2 has been released recently. What is significant about this new pool is that it is the first *complete* pool of questions developed completely within the Amateur Radio community. In the April issue of *WORLDRADIO*, John B. Johnson W3BE describes the development of the new pool which he calls "one of the most significant milestones in the history of Amateur Radio. It is — for the first time ever — our amateur service community's public statement on what we consider to be the basic knowledge one must have in order to operate an amateur station properly…".

He goes on to suggest the following (emphasis mine), **"YOU AND EVERY FCC-LICENSED AMATEUR OPERATOR SHOULD CAREFULLY REVIEW EVERY QUESTION IN THIS POOL TO MAKE CERTAIN THAT YOU CONTINUE TO BE QUALIFIED TO OPERATE AN AMATEUR STATION PROPERLY."**

The complete text of the SOU between **VARACES and Medical College of Virginia,** first announced in this column in the February issue has been released. Go to **www.varaces.org** for the complete information.

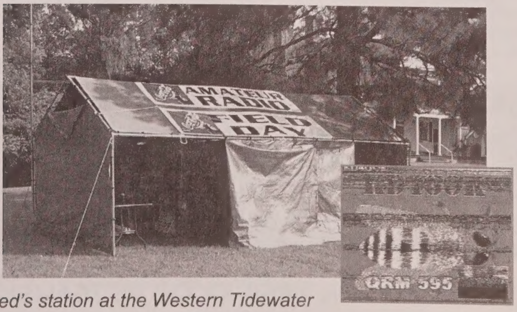
I had the great pleasure of having a reader contact me via email. Seems **Larry Lewis WB4JBJ** grew up in Zuni. The home where he lived was destroyed in the flood of 1999 but is still standing. I sent him some pics and we had a nice exchange, Thanks Larry.

I took my editor's advise about **Echolink**, "Don't knock it until you have tried it." I have enjoyed it. I am also setting up all the computers here to run it. Recently, I came in contact with three new hams – two of the three had been on Echolink in the first months of their ham career. For them, Voice over Internet Protocol is existing technology. Imagine, in a decade this technology will be looked on as "traditional".

Recently, I took a look at a Member Assessment form that is used by my affiliated ECOMM group. (I'm sure your group has something similar.) I did not like my results. Two big goose eggs came up in the first two items – First Aid and CPR. My last training in these areas was in Army Basic Training. So next time I will be reporting on my experience in getting up to date in these areas.

Also my 'go kit' is not good as far as personal items is concerned. For that area I will use a list found in a FEMA Independent Study course, IS-195, Incidend Command System.

See you next time, 73, bki>



Fred's station at the Western Tidewater Radio Assocation Field Day setup at the Isle of Wight County EOC. And a FD SSTV picture with a little interference from the 20 meter phone station.

Let's Look at it- this way!!

Marvin Whatley AA4YW
4010 Schooner Circle
Oriental, NC 28571
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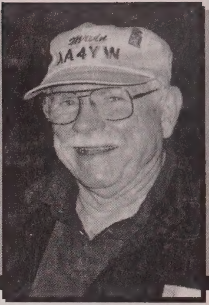
aa4yw@sera.org



A Little Heresy

Did you know that Science was invented? Of course it was. It is a contrivance of man that is only about 400 years old. The invention is often attributed to Galileo. Mathematics and alchemy were old by his time and available to him, and he, like modern scientist, used all the relevant information and technology he could find.

What Galileo contributed was the method of testing hypotheses against systematic observations with mathematical logic as a tool for interpretation. Mathematicians of his day were subordinate to philosophers who pursued unfettered excursions of the mind, and above all sat the Clergy who were the sole custodians of the truth. Galileo, a mathematician, pushed the boundaries which got him into a lot of trouble. He was subjected to an excruciating inquisition, found guilty of heresy, and spent the last years of his life a prisoner in isolation in his own house. The established authorities of the day knew very well that the earth was the center of the universe and they all agreed with each other and had the writings of Aristotle and the Bible itself for support. Galileo had the temerity to point out (very humbly, I note) that what he saw through his telescope told of a somewhat different reality.

Well, that was back in 1633 and now things are different. Perhaps a little. Science has increased our understanding by fantastic factors, allowing us to look at things smaller than a neutron and larger than galactic clusters. But, alas, many of the simple precepts that fix our daily routines spring from the contrived dogma of self assured authorities, not much unlike those in Galileo's day. There is the presumption that some pool of experts did studies and made analyses to justify the instituted systems, but frequently the justification is only the dubious opinions of a small group whose supporting data are testimonials, and who don't really trust analysis.

Among the public policies that might qualify for consideration I could include street lights, land fills, sidewalks, recycling and insurance. What I have in mind, however, are the procedures of the Amateur Radio National Traffic System. The NTS is generally considered to be the property of ARRL (an interesting concept in itself) although support from them has now dwindled to an occasional missive from authoritative persona instructing us on the way to do things. The content is usually archival with some variations in emphasis and the confusion in intent which results from long disuse. It is always presented with proper dignity and decorum.

It is inappropriate, however, to address the subject with contempt since the NTS rocks along in fairly good health with thousands of participants. The cadre hold a diversity of credentials and happily consists of a disproportionate number of ancient sages who go about their business unperturbed by sacred instruction, and a significant number of newcomers who will survive the confusion. Most of the procedures and policies have been in place a very long time and some have been endorsed and blessed by the institutional priests, and in this arena all are having fun playing the game.

You would think that over the many decades that the NTS has been passing traffic there would be plenty of data on the effectiveness of various methods of reading and copying messages, but no systematic studies deal with this and all that survives is the general statistical decline of the volume of traffic and the echo of much impassioned dialogue. The rare "training" sessions that are held usually deal with details of minor importance and sound like recitations from a catechism. More time is spent instructing that one should say "number group one two" instead of "twelve" than developing a sense for when explanatory devices and prowords are appropriate. One is formally forbidden to use the context of a message to help identify a word and if the text is "AND SEND IT TO ME" one must clarify that "TO" is not "TOO" or "TWO" by pausing to add, "I spell, Tango Oscar." When a transmitting station encounters "QSO" in the text and renders it "letter group Quebec Sierra Oscar" you suspect that he is more concerned with perpetrating the liturgy than facilitating the communication.

Prowords are a topic deserving mention. When sending a message by CW there are only three prowords: a double "aa", used to separate lines of an address, a break, "bt", used to begin and end the text, and an "ar" to mark the end of the message. Other than these every character sent is part of the message. Life is not that simple when messages are read on voice nets. Interesting explanatory utterances occur such as: "I spell ...", or "that is...", or "letter group", or "figures", or "I repeat." Sometimes the sender will explain the standard message format to the receiver with such words as "station of origin...", or "going to ...", or "Check is ...", or "Zip is ...". Technically if a number occurs and the reader simply reads the digits without saying "number group" first, the receiver could count each digit as a separate word, even if it is obviously a date or an address.

Well, when you are taking a message and all of this comes at you, how do you know what belongs in the message and what is an explanation of it? The answer is that you are supposed to recognize the prowords and not include them. Some years ago I did the research to try to find an official list of accepted prowords. I found that there are several lists that disagree with each other. I formally proposed to ARRL that they draft and codify an official list, but was invited to "leave it alone, things work pretty well." In fact they do. It is interesting to me, however, that we are supposed to be smart enough to work through these ambiguities but not smart enough to recognize common acronyms.

Over the last half dozen years I have personally handled on voice or CW several thousand NTS messages and the number I have heard being passed is perhaps five times that. There are not over six or seven hams in North Carolina who could claim more. It would be nice if I had been taking data all of that time, but I was usually engaged with the business at hand. By training and inclination, however, I pay attention to which things work and which things don't, and try to identify trends. For what it is worth, I would like to share an observation that may represent a different point of view.

First of all we must establish that the object of the game is to be able to pass traffic cleanly and efficiently under a wide range of circumstances and conditions. All other considerations, including obeisance to canon and supplications to royalty, are subordinate to this. Having made that point it is quickly noted that standard practices and procedures are very important to effective transmission of messages, and many of the suggestions on how things should be presented and read do work well. They become increasingly important as band conditions get bad. To quibble about the differences in the fairly small variety of common practices gains nothing. But, among the important variables in transmitting an NTS message there is one so important as to eclipse all others, and because it is so difficult to quantify, it gets only passing attention. That one is the speed at which the message is read.

The correct speed for any particular message depends upon several things, including band conditions and the complexity of the message, but the most important is how fast the receiver can write (or sometimes, type), and at this the sender must guess. The ability to guess well might be the most important skill that a traffic person can develop. There is only one correct way to read the text of a message (or the address for that matter) and that is to start at the beginning and go once through the whole thing at the right speed (your best guess), using whatever prowords and explanations are necessary (but only those necessary) and stop when you get to the end. The technique of reading it fast, then immediately reading it fast again then picking up various things that you think might cause trouble and inserting random helpful comments is disastrous.

When you get to the end you stop and turn it over to the receiver. It is now his job to look at the mess in front of him and decide what fills (if any) he needs and in what order to request them. You cannot help him in this and anything you send while he is in this mode is distracting and counter-productive. Your job is to wait quietly.

By now you are wondering what science and Galileo have to do with NTS messages. I had hoped that the brilliance of my prose had distracted you so you wouldn't notice. Actually I have been developing a mathematical model for describing the effect of reading speed on the time it takes to send a message. This isn't science either, but it is a lot of fun. It has a bunch of parameters and can be integrated over the error curve to produce expected times as a function of speed. It clearly shows that it takes longer to complete the message when the speed is faster than some critical value. I thought I might prepare it for presentation here, but it got much longer (and more confusing) than is appropriate, so you get this instead. ?? ■

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SQUELCHTALE

continued from back page

of hams on the net who don't talk on the repeater any other time.

There are other things besides expired hams and quiet listeners that make repeaters seem quiet now. One of them is the sheer number of repeaters, diluting the operator pool. In 1991, there were four or five repeaters that carried most of the traffic in the Raleigh area, and virtually none on UHF. Now activity is spread among a dozen two meter repeaters and a handful of UHF machines (with a few dozen more that rarely see activity). So maybe things haven't died off as much as it seems.

SERA Survey

I asked the SERA staff and officers what they thought about repeater activity. Responses were mixed:

Getting Started Columnist Jack Mood W4HTX said, "Yes, I notice less activity on the machines I use in the Charlotte NC area." Virginia Assistant Director Charlie Stokes WB4PVT said, "All repeater use in down in South East VA."

Our new Mississippi news columnist Charlie Diamond KG4CKW waxed philosophical, as columnists are wont to do. "Repeater activity has become more cliquish, and some folks are becoming more like HF CB operators . Folks tend to hog a repeater that they choose and shun the newbies. Ham radio seems to have become more snobbish in general and if your not a general there are a lot of hams that won't even talk with you. This attitude has also helped many folks decide not only to not upgrade but to get out of the hobby all together." That's sad, Charlie, but it's not like that where I live. New hams are falling all over each other to take part in activities.

Georgia Assistant Director and columnist Vester Scott N8VKA also gave me a piece of his mind. "If you simply mean "usage", then I'd say there isn't much change. A pretty predictable outcome when the bar must be lowered to practically zero AGL in order to keep the numbers up, methinks."

Ouch! Vester's sounding a bit curmudgeonly, methinks.

Roger Gregory W4RWG, our SC Director, saw things differently, saying, ""I don't see an decline in usage." Nor did Tim Berry WB4GBI, the TN Director, who commented, "Two of my 'quiet' repeaters have picked up. Not sure whether I would call it a trend or not, however."

SERA Secretary and WV Vice Director Alex Hedrick N8FWL made it a bit more personal, with this critique of the operating habits of the SERA Board: "During one SERA meeting, I openly chastised the attending staff members because very few of them were carrying their portable radios....... but, they all had their damn cell phones on their belt." Didn't help, did it, Alex? There are still very few HT's at the table. No room with all those notebook computers.

Well, repeater owners are fairly notorious for not actually using their machines, and for hiding out on UHF while the rabble uses the two meter repeater. When I started working with Wayne to take over the Repeater Journal, I noticed something a little sad. He had a nice pile of ham equipment in one corner of his living room, but most of it wasn't connected. There was a couch pushed up in front of it. His antenna array had been damaged in a storm, and was mostly non-functional. He had one working HT, if he remembered to charge the batteries.

Wayne had been active. He told me how, when the beams were working, he could work a mobile simplex 75 miles away just like a local. He fired the HT up on the Mt. Mitchell repeater on one trip to the SERA Board meeting, and a bunch of people called him, wondering where he'd been. But for the last few years, ham radio, for Wayne, was hamfests, SERA and the *Repeater Journal.*

In the August *CQ* magazine, editor Rich Moseson W2VU writes about "personal sunspot cycles" - operating interest cycles, really, where hams come and go from the radio, sometimes for years. I had one that lasted about 10 years. I've been back for 13 years, since moving to Raleigh. I stay pretty active, but I'll admit that when I'm in the shack, the computer beckons more than the radio does. When I do get on the air, you'll often hear me say "I've got to get back to work..."

There are some statistics that point to a softening, if not bursting, of that mid 90's Tech bubble. Hamfest attendance is one. My local club is another, down to an average of 300 members from the record high of just over 500. But there are other factors at work there. Hams say e-Bay has bitten hamfests. The soft economy isn't helping. And 300 members is still bigger than it was when I joined in 1990. I expected a bigger hit than we've seen when we reached the 10-year point on the new Tech licenses. The 18,000 we lost is less than I expected. Ham radio is not growing fast today, but it is not shrinking, at least in terms of licensed hams. We need to work at it, but it's not all gloom.

My advice: pick up the microphone, think of something interesting to talk about, and get on the air.

Field Day Tour?

KN4AQ was a no-show on the grand North Carolina Field Day Tour. Thanks and sorry to the many clubs that invited me to stop by. I got a call from a client who needed me that weekend. I'd already turned them down a few weeks earlier for a ham radio function. I couldn't do it twice and stay in business. NC Section Manager John Covington W4CC did make "the tour," modeled, he says, on Gene Fegley's legendary travels through the state. Maybe I can enlist him for a write-up next year. It is very educational, and a lot of fun, to see what a bunch of different ham groups do for FD.

60 Meters, WRC 2003

There have been some big things happening in ham radio outside the world of repeaters. We've gained five discrete frequencies to use near 5 MHz (60 meters). At the recent World Radiocommunication Conference, the cw requirement for HF ham licensing was dropped, and at the end of this decade, shortwave broadcasters will leave a big portion of the 40 meter band.

I was ready for 60 on Day One (July 3rd). I missed the stroke of midnight, but tuned in about 3 AM to see what was happening. Lightning static was 10 over S9, and most signals were having a hard time competing. But the five channels were busy. Everyone seemed to be right on frequency. I've been more interested in propagation and band use during the day, though, when we hope it will fill in a gap in coverage for emergency communications when 80 is about dead and 40 is too long. I often leave my HF rig squelched on "channel 1" - 5330.5 kHz. Most of the time it's quiet. I hear stations between 50 and 400 miles away, but signals are usually not very strong. I have not run any tests to compare signals on 80, 60 and 40 meters, but I'd like to over the course of a few weeks.

I'm glad we'll be getting an exclusive nighttime hunk of 40, and the rest of the world will get a phone band to share with us (Region 1 and 3 will expand up to 7200 kHz. We'll still be sharing 7200 - 7300 with the broadcasters at night). It's not happening until 2009, so I'll think more about it then.

Cw changes should come sooner. The US, and the rest of the world, is no longer treaty-bound to require some knowledge of cw for an HF ham license. The ARRL opines that the FCC can't and won't change the rules to drop the cw license test in the US by fiat. They'll have to go through a rulemaking procedure with comments and all, first. I predict that will happen. There will be a loud cry from the contingent that thinks cw should remain a requirement, but they will not prevail. Cw itself will remain with us for a long time. Some new hams will take it up just because they want to. It may never die completely, but use will shrink slowly.

The open questions are how much phone band (or other mode) expansion will erode the protected cw band segments, and will dropping cw spark another boomlet in ham licensing, or just upgrading?

Maybe I'll see you on HF!

SERA Repeater Journal
The Official Voice of SERA, Inc.

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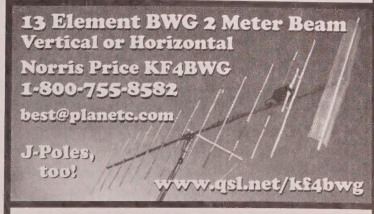
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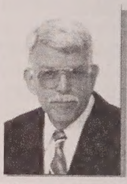

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Kinston, N.C.

MARCH, 2004

Information - (252) 524-5724
THANKS FOR A GREAT 2003!

The SERA *Repeater Journal* Southeastern

HAMFEST/CONVENTION CALENDAR

Hamfest dates marked with an asterisk (*****) are ***not*** confirmed and are estimated from the previous year's date.

We urge hamfest sponsors to send their correct dates to the *Repeater Journal* editor as soon as possible (**editor@sera.org**).

We acknowledge and appreciate assistance in confirming dates from SERA & ARRL Directors, the ARRL, commercial dealers, and many clubs and individuals.

Deadline for November Issue is October 1, 2003

AUGUST, 2003

2 .. Voice of Aladdin ARC HAM OH RAMA, COLUMBUS, OH
3 .... 52nd Annual Winchester HF, BERRYVILLE, VA
3 .... Hamfest at Stuben Co. Frgrnds, ANGOLA, IN
9 .... Valdosta ARC Super-Tailgate, VALDOSTA, GA
9 .... TARA HF & Comp. Show, HUNTINGTON, WV
10 . *new location* Bluegrass ARS hamfest, LEXINGTON, KY
10 ..... Carroll County ARC Hamfest, WESTMINSTER, MD
16 .... Ellijay ARS Hamfest, ELLIJAY, GA
16-17 .... Hamfest, AL Sec. Conv., HUNTSVILLE, AL
17 .... Warren ARA Hamfest, WARREN, OH
23-24 ..... WV State Conv/HF, (Jksons Mill) WESTON, WV
30-31 .... Shelby ARC Hamfest, SHELBY NC
31 .... Short Mt. RC, Hamfest, LEBANON, TN

SEPTEMBER, 2003

6 .... Owen County ARA Hamfest, SPENCER, IN
6 ...... Greater Louisville Hamfest Assn., LOUISVILLE, KY
6-7 ...... Columbia ARA/FAR Hamfest, FRIENDSHIP, MD
6-7 .... Findlay Radio Club Hamfest, FINDLAY, OH
13 .... Monroe ARS Swap Meet, MONROE CO., TN
13 .... Paulding ARC Hamfest, DALLAS, GA
20 .... Arrl St. Conv./Hamfest, LITTLE ROCK, AR
20-21 ... *new location* VA Wesleyan, VIRGINIA BEACH, VA
21 .... Greater Cinci ARA Hamfest, CINCINNATI, OH
28 .... Hamfest Assn. of Clev. HF, CLEVELAND, OH

OCTOBER, 2003

3-4 .... (Fri-Sat) Ten-Tec Hamfest, SEVIERVILLE, TN
4 . *new location* York Co. Tech College, ROCK HILL, SC
5 .... Hoosier Hills Ham Club, BEDFORD, IN
11 .... Hamfest, STARKE, FL
11 .... ARC of Augusta, HF/Comp Show, EVANS, GA
12 .... Hamfest, MAYSVILLE, NC
18 .... NW GA ARC Hamfest, ROME, GA
18 .... Gr. Jax HF Hamfest, JACKSONVILLE, FL
18 .... Hamfest, FOE building, OAK RIDGE, TN
25 .... *new hamfest* CATS Hamfest, CLARKSVILLE, TN
25 .... HF at C.Jordan in E.Ridge, CHATTANOOGA, TN
25 .... Sumter ARC Hamfest/Comp. Fair, SUMTER, SC
26 .... Massillon ARC Hamfest, CANTON, OH

NOVEMBER, 2003

1-2 .... Stone Mt. Hamfest, LAWRENCEVILLE, GA
7-8 (Fri-Sat) ... Baton Rouge ARC Hamfest, BAKER, LA
8 .... *new location* - Beachfest, MYRTLE BEACH, SC
8 .... Hamfest at St. Fairgrnds, MONTGOMERY, AL
16 .... JARSFEST at American Legion, BENSON, NC
14-15.. Jackson Co. ARA Hamfest, OCEAN SPRINGS, MS
29 .... EARS Hamfest, EVANSVILLE, IN

DECEMBER, 2003

none

JANUARY, 2004

3 .... Lakeway ARC 'fest, NG Armory, MORRISTOWN, TN
10 .. Southwest Ohio Digital Symposium, MIDDLETOWN, OH
10* .... Ft. Myers ARC Hamfest FT. MYERS, FL
10* .... Hamfest, GREENWOOD, SC
10* .... Dial RC Hamfest, MIDDLETOWN, OH
17* .... SE LA ARC Hamfest at SLU Univ., HAMMOND, LA
17 .... SCARA Hamfest at Civic Center, GALLATIN, TN

FEBRUARY, 2004

Note: February 1st and March 1st 2004 are Sundays. When a weekend is split between two months, there can be some confusing date-jockying for hamfests. The *RJ* will print confirmed dates as soon as we receive them.

6-7 (Fri, Sat) .... MS St ARRLConv/HF, JACKSON, MS
7 .... Charleston ARS Hamfest, CHARLESTON, SC
7-8 .... Dade RC Tropical Hamboree, MIAMI, FL
13-15 .... Orlando ARC HamCation, ORLANDO, FL
14-15 .... DixieFest Hamfest, MEMPHIS, TN
8* .... Hamfest, MANSFIELD, OH
8* .... FrostFest, RICHMOND, VA
14* .... Hamfest, SEBRING, FL
21 .... Hernando Co. ARA Hamfest, BROOKSVILLE, FL
21* .... Dalton ARC Hamfest, DALTON, GA
22* .... Hamfest, Nat'l Grd. Armory, ELKIN, NC
TBA .... Vienna Wireless Winterfest, ANNANDALE, VA
22* .... Hamfest, ZEPHYRHILLS, FL
29 .... Hamfest, FAYETTEVILLE, WV

Is your hamfest listed correctly?

(does it still have a dreaded "*")

Have we missed one?

Please e-mail the editor at:

editor@sera.org

MARCH, 2004

6* .... AR River Val. Hamfest, RUSSELLVILLE, AR
6* .... Kerbela Hamfest at Temple, KNOXVILLE, TN
TBA .... North Arkansas ARS Hamfest, HARRISON, AR
12-14 .... Acadiana ARA Hamfest, RAYNE, LA
13-14 .... Hamfest/Computer Show, CHARLOTTE, NC
13 (tent) . 26th Mam. Cave ARC Hamfest, CAVE CITY, KY
13* .... Hamfest, PORT CHARLOTTE, FL
20 .... Playground ARC Hamfest, FT. WALTON BEACH, FL
20 .... Hamfest at Coonskin Armory, CHARLESTON, WV
20* .... Gulfcoast ARC HF, NEW PORT RICHEY, FL
21 ... Toledo Mobile Radio Assn. Hamfest, MAUMEE, OH
21 .... DownEast HF - Lenior County FG, KINSTON, NC
21* .... Lake County ARA Hamfest, MADISON, OH
TBA .... Middle TN ARS Hamfest, TULLAHOMA, TN
27-28 .... Baltimore ARC Hamboree, TIMONIUM, MD

APRIL, 2004

3 .... Lincoln Train ARC Hamfest, ELIZABETHTOWN, KY
3 .... Union County ARC Hamfest, UNION, SC
3* .... Hamfest at Bradley HS, CLEVELAND, TN
3* .... Tailgate Party, JACKSONVILLE, FL
3* .... Ft. Smith Area ARC Hamfest, FT. SMITH, AR
4 .... RARS*Fest*, ARRL State Convention, RALEIGH, NC
11* .... Eastern Shore Hamfest, EASTON, MD
17* .... Chesapeake ARS ccHamfest, GAINESVILLE, FL
17* .... Chesapeake ARS Springfest, CHESAPEAKE, VA
17 .... Catawba Val. HF & Comp., MORGANTON, NC
23-24 .... Little Rock Hamfest, LITTLE ROCK, AR
23-24 .... SE VHF Conference, Huntsville, AL
24* .... Cherokee Capital ARS Hamfest, CALHOUN, GA
30-May1*(Fri-Sat) Baton Rouge ARC Hamfest, BAKER, LA

MAY, 2004

TBA .... Midwest Div. ARRL Conv/HF, LEBANON, MO
1* .... Upstate SC Hamfest, SPARTANBURG, SC
1* .... Big Sandy ARC Hamfest, LOUISA, KY
1* .... Hamfest, GRAYSONVILLE, MD
1-2* .... Birminghamfest, BIRMINGHAM, AL
2* .... Jackson County ARC Hamfest, RIPLEY, WV
8* .... DurHAMfest, NG Armory, DURHAM, NC
8 .... Johnson County ARC, MOUNTAIN CITY, TN
14-16 .... Dayton Hamvention, DAYTON, OH
15* .... Roanoke ARS Swap Fest, WILLIAMSTON, NC
TBA (Fri-Sat) .... Jackson Co ARA, PASCAGOULA, MS
22 .... Hopkins Co. ARA, MADISONVILLE, KY
23* ...... MFMA Mem. Day Hamfest, West Friendship, MD

JUNE, 2004

5* .... Atlanta RC Hamfest, ATLANTA, GA
5* .... Northern KY ARC Hamfest, INDEPENDENCE, KY
6 .... Ole VA Hams, Hamfest at FG, MANASSAS, VA
TBA ...... W-S Classic at Dixie FG, WINSTON-SALEM, NC
11-12 (Fri-Sat)RACK Hamfest, TN ARRL, KNOXVILLE, TN
12* .... Nashville ARC Hamfest, SMYRNA, TN
12 *(tent)*... Pig Pickin'/Tailgate (exams), FRANKLIN, VA
12* ...... Dekalb Co. ARC Tailgate Outing, FT. PAYNE, AL
19* .... Tailgate Party, CHESTER, SC
19* .... Hamfest (free), SILVER POINT, TN
20* .... Frederick ARC Hamfest, FREDERICK, MD
26-27 .... **ARRL FIELD DAY**

JULY, 2004

TBA . Firecracker Hamfest, Civic Center, SALISBURY, NC
10 .... Lanierland HF, GAINESVILLE, GA
17 .... Midsummer Swapfest, CARY, NC
17* .... RCARS Hamfest at Cdr Pt. Pk, DAYTON, TN
23-24* (fri-sat) .... Milton ARC Hamfest, MILTON, FL
24* .... OH-KY-IN ARS Hamfest, CINCINNATI, OH
31* ... WCARS Hamfest, Hywd Co. FG, WAYNESVILLE, NC
25* .... BRATS HF and Computer Fest, TIMONIUM, MD

AUGUST, 2004

1* .... Portage ARC Hamfair, RANDOLPH, OH

2004 CONFIRMED DATES

July 17 .... Mid-Summer Swapfest, CARY, NC

2005 CONFIRMED DATES

April 10 .... RARSFest, RALEIGH, NC

2006 CONFIRMED DATES

April 9 .... RARSFest, RALEIGH, NC

SQUELCHTALE

Gary Pearce
KN4AQ
Editor
kn4aq@sera.org

Now You're Missing?

The conventional wisdom is that repeaters are a lot quieter than they were. Were when? It's an ambiguous time in the past. I'm going to peg it as the mid 90's, though I could go back to the late 70's as a reference marker.

I suppose it's true. I don't know of any source for hard data, so all we have are personal observations, and for most of us, that's local or at best regional. But the reports are consistent enough from area to area that there must be something to it. So what's up? Or perhaps what's down?

Now You're Missing!
WHY AREN'T YOU USING YOUR FIRST AMATEUR RADIO LICENSE
ARRL

Bubble memory

In early 1991 the FCC created the revolutionary no-code Tech license. Over the next few years, the ham population soared. It was glory (or gory) days for instructors and VE teams, with dozens of students in classes and hundreds lined up to take tests. Clearly there was pent-up demand from people who wanted to become hams - or thought they did, but were held back by code. The number of US hams more than doubled, from around 250,000 to more than 600,000.

They got on the air, mostly on VHF FM Repeaters. Lots of them joined clubs. My local club (the Raleigh Amateur Radio Society) also doubled in size, topping 500 members. SERA's associate membership grew. Lots more repeaters got built. Hamfests boomed. Radio sales surged. I'll stop now because I'm running out of verbs.

And then, it appears, a substantial number of them decided maybe they didn't want to be hams so bad, after all. Why? I'm sure it's lots of reasons. One line of reasoning I've heard is that many of the new hams just wanted a communications tool, not a hobby, and were disenchanted once they got in. Seems like a lot of work, getting a ham license just to have a two-way radio you can't use for business, though it's been happening in boating circles for a long time. Then there are the usual suspects: the Internet came along and provided an interesting alternative in communications. There were lots of other activities, and 500 channels of cable TV competing for attention. Cheap cell phones took the blush off of autopatch and repeaters for family communications.

Activity dropped, club membership fell, hamfest attendance declined, and I'm out of verbs again. So the advent of no-code created something of a "bubble" in our population. The bubble didn't exactly burst... it's just been leaking air as many new hams lost interest and turned off their radios.

The numbers

They may not be lost for all time. The FCC's ULS allows a search for expired licenses over the past two years, prime time for the new Tech's 10-year license terms to expire if they'd lost interest that completely. If I'm interpreting it right, just over 41,000 licenses did expire in the past two years. That's less than a quarter of the new hams licensed in the first years after code-free was initiated. Some of those may yet renew, since they're in their two-year grace period, if they're not daunted by the on-line renewal system.

A breakdown of that number is even more interesting. Of the 41,000 expired licenses, there are:

8,000 Novices
18, 500 Techs
3,800 Generals
2,466 Advanced
1,600 Extras

So a lot of those new Techs did fail to renew, about 10%. That's not as bad as I thought it would be.

On the air, it's not just the new Techs who are missing. I've been around Raleigh for over 13 years, listening to area repeaters intently. Most have a group of "regulars" who show up at drive time, or whatever time of day they have for hamming. New voices come, old ones go, and every few years the groups of regulars turn over almost completely. Very few of the hams I talked to around here when I first got here are still on the air. I have to keep working hard to maintain my status as "legend" (in my own mind) among a constantly shifting population of local hams.

Lurkers and listeners

Drive-time listening can be deceiving. Five or six hams chatting for an hour commute can make a repeater seem busy, but they're a small number of those who are really out there, just listening. My commute to work is a little later than most around here, about 20 minutes sometime between 8 and 9 AM. There was never anyone on my club repeater. So I decided to see if there was anyone out there in the woodwork. I began calling the "After 8 late-to-work" net, and ad-libbed a net preamble that listed all the types of hams who might be out driving around that time of day: hams who are late to work, not late to work, students on break, salesmen who drive around all day and don't get any work done, night-shift just getting off work, hams on vacation, retired....

Out of the woodwork they came! Five, ten, fifteen, twenty or more. A retired ham (Bill Lyon N4CAR) saw that this was a handful for me to handle while mobile, and offered to be "net control." He ran the net for an hour each morning, and the casual ragchews kept going strong long after I arrived at work. And he kept it up for several years before getting tired of the routine. Nobody else wanted to keep running it, so the net ended and the repeater went back to being quiet after the 7 AM crowd got to work.

Now and then I'll revive it while I'm driving, and half a dozen hams will be there, still just listening. Some of the older ones will remember the net and express nostalgia for the fun. Our 8 PM daily net is booming, drawing 15 to 25 check-ins. You hear calls

CONTINUED ON PAGE 60

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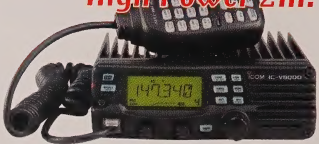

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